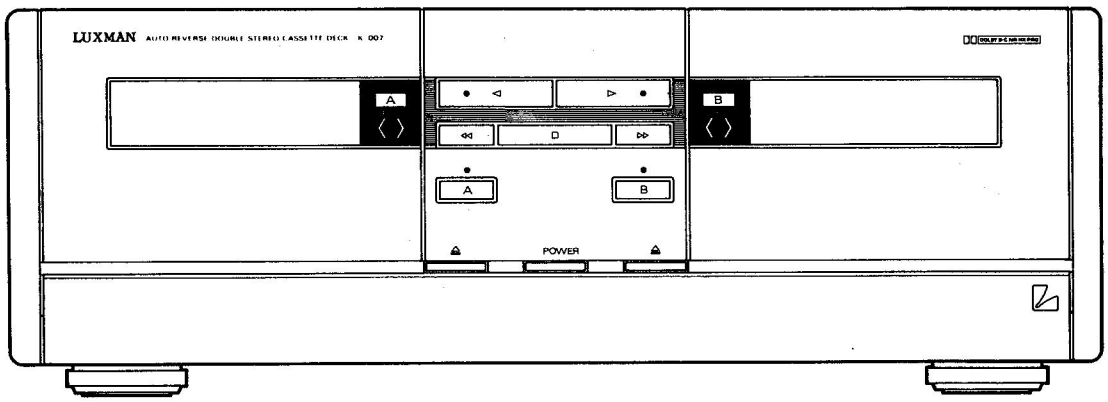
SERVICE MANUAL

Auto Reverse Double Cassette Deck

K-007



Contents

Specifications

[at PLAYBACK: DECK-A/B]

Output Voltage (MTT-150) ..... 530mV±1.5dB
S/N Ratio ..... DOLBY OFF : 48dB
("A" Curve WTD, MTT-150) B : 56dB
C : 61dB
Distortion (MTT-150, DOLBY OFF) 2.5%
Frequency Response (MTT-216)
..... 31.5Hz to 4kHz (±4dB)
Crosstalk (MTT-121) 55dB
Stereo Separation (MTT-141) 35dB

[at RECORD: DECK B]

Input Sensitivity (400Hz) ..... (Line In) 150mV±2dB
Output Voltage (400Hz) ..... 530mV±3dB
S/N Ratio ..... DOLBY OFF : 49dB
("A" Curve MTD, Metal Position B : 57dB
from 400Hz 3% Dist. Point) C : 62dB
Distortion (400Hz Dolby Level) 3%
Frequency Response (–25dB Rec. Dolby OFF)
..... NORMAL : 30Hz to 15kHz ($^{+5}_{-6}$dB)
..... CrO_2 : 30Hz to 16kHz ($^{+5}_{-6}$dB)
Metal : 30Hz to 16kHz ($^{+5}_{-6}$dB)
Crosstalk (MTT-121) 55dB
Stereo Separation (MTT-141) 35dB

[RECORD: DUBBING]

Output Level (MTT-150)..... 530mV±3dB
S/N Ratio ..... Dolby OFF : 47dB
("A" Curve WTD, Metal Position, B : 55dB
from Blank Tape P/B) C : 60dB
Distortion (MTT-150) 3%
Frequency Response (–25dB Rec. Dolby OFF)
.....30Hz to 12.5kHz ($^{+8}_{-6}$ dB, DUB x 1)
.....30Hz to10kHz ($^{+8}_{-6}$ dB, DUB x 2)
Crosstalk (MTT-121) 55dB
Stereo Separation (MTT-141) 35dB

[GENERAL]

Tape Speed (MTT-111)
..... 4.76cm/sec. ±1.5% (NORMAL, DUB x 1)
..... 9.52cm/sec. ±1.5% (DUB x 2)
WOW & Flutter (JIS WRMS MTT-111) 0.12%
FF/REW Time (C-60) ..... 110sec.
Take Up Torque ..... 30 to 70gcm
FF/REW Torque ..... 90 to 180gcm
Power Supply Voltage
..... AC100V, 50Hz/60Hz (JA Model Only)
..... AC120V, 60Hz (UZ Model Only)
..... AC220/240V, 50Hz (AD/AG Model Only)
Power Consumption..... 30W
Load Impedance 47ohm
Semiconductors ..... 12 IC's, 168 Transistors,
..... 74 Diodes, 15 Zener Diodes
Dimensions ..... 360(W) x 125(H) x 344(D) mm
Weight 6kg

Note: Due to continuing product improvement, specifications and design are subject to change without notice.

Controls & Jacks

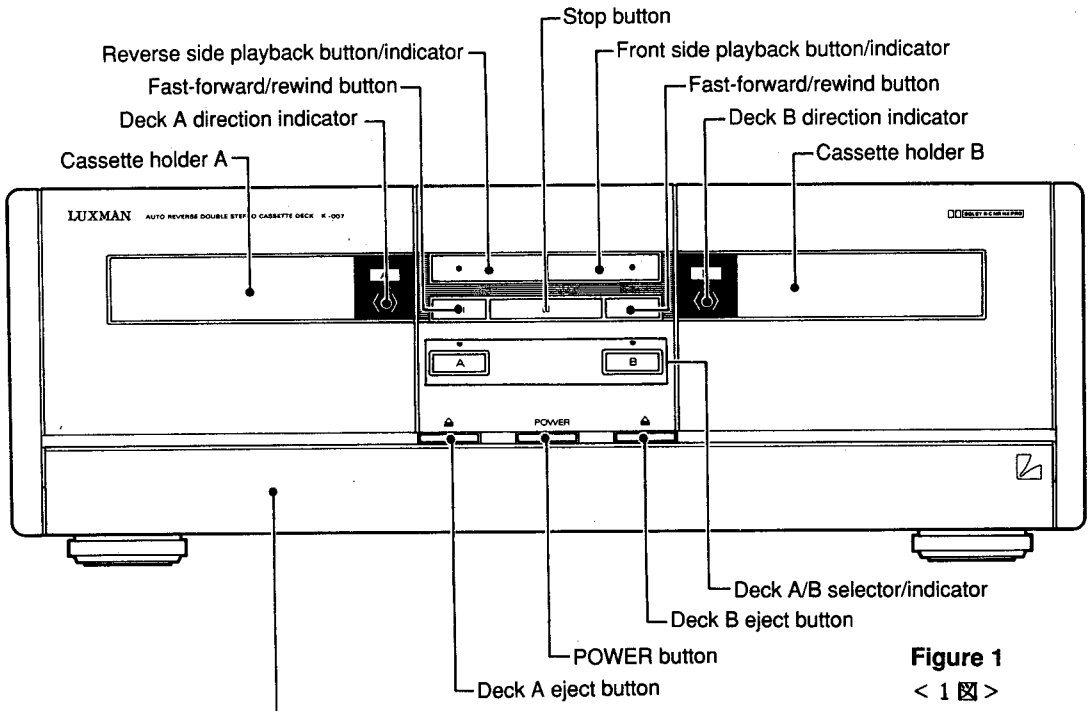


Figure 1
< 1 ☒ >

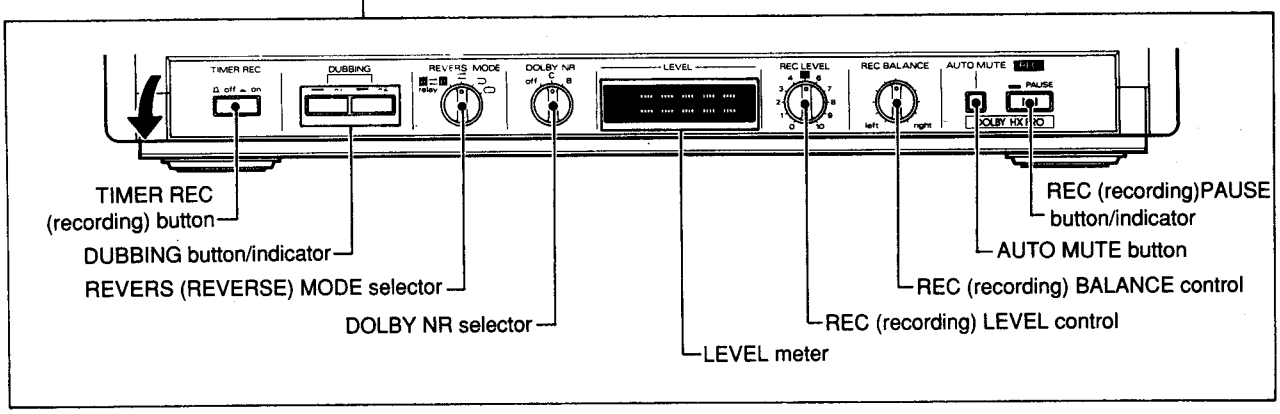


Figure 2
< 2 ☒ >

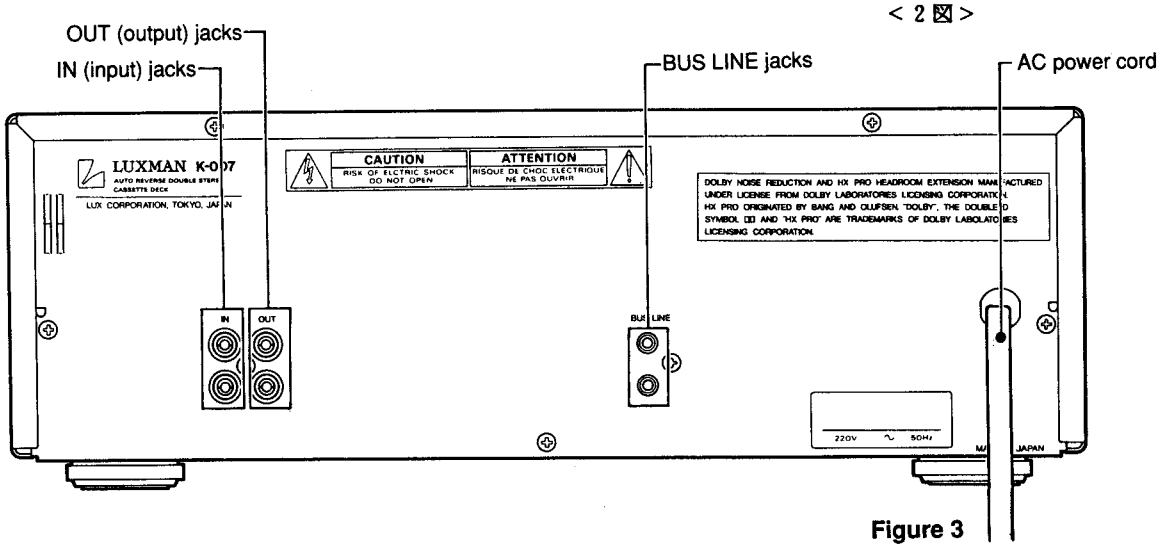


Figure 3
< 3 ☒ >

Operation Guidelines

CASSETTE INSERTION

- Turn the power on.
- Press the eject button A or B to open each cassette holder.
- Insert a cassette in the cassette holder.
- Deck A is for playback only, and no recording can be performed.
- Press the cassette holder until it is restored to the unit.
- When the cassette tape is set in place, the unit detects the cassette type and sets the optimum equalizer bias automatically.
- When recording on deck B, make sure that the tab to prevent accidental erasure is not removed. If it has been removed, the accidental erasure preventive mechanism functions and neither recording, dubbing or blank-searching can be performed.
- Select the desired Dolby NR system with the DOLBY NR selector. Select the same system for playback as that used for recording.

RECORDING

- Insert the cassette for recording in deck B, with side A facing you.
- The deck is selected automatically by inserting a cassette without pressing the deck A/B selectors.
- If the tab to prevent accidental erasure has been removed, the accidental erasure preventive mechanism functions and no recording can be performed. When you use such cassette for recording, apply plastic tape or equivalent on the tab position.
- Select the desired Dolby NR system with the DOLBY NR selector.
- Select the reverse mode with the REVERS MODE selector.

⇄ ..... When recording on one side of the tape is completed, the tape stops.

⊃ ↻ A⇄B ..... When recording on side A is completed, the head reverses to the beginning of side B.
And when recording on side B is completed, the tape stops.

- Press the REC PAUSE button. The unit enters recording pause mode and is ready to record.
(The pause indicator lights.)
- Select the program source to be recorded with the REC SELECTOR of the A-007 amplifier.
- Turn the REC LEVEL control so that the maximum peak level meter reading is between 0 dB and +3dB.
- When the recording levels are uneven for the right and left channels, turn the REC BALANCE control until they are balanced.
- Press the front side playback button (▶) in recording pause mode. Recording on the front side starts.
- By pressing the AUTO MUTE button in recording pause mode or during recording, about 4 second interspacing is provided. If the button is kept pressed, more than 4 second blank can be inserted.
- To pause during recording, press the REC PAUSE button. To stop recording, press the stop button.

LOCATING A BLANK PORTION ON THE RECORDED TAPE-BLANK SEARCH FUNCTION

More than 3 minutes blank portion on the recorded tape can be located easily.

- Insert the cassette whose blank is to be located in deck B.
- Blank search does not function on the cassette without a tab to prevent accidental erasure or on deck A.
- Press the REC PAUSE button to turn on the indicator.
- Press the fast forward/rewind (◀◀, ▶▶) button.
- The unit locates a blank in fast forward mode, and enters pause mode after about 4 seconds from the beginning of the blank portion.

PLAYBACK

- Insert the cassette for playback in deck A or B.
- The deck is selected by inserting a cassette without pressing the deck A/B selector.
- Select the desired Dolby NR system with the DOLBY NR selector. Be sure to select the same system for playback as that used for recording. Otherwise, playback may not be performed properly.
- Select reverse mode with the REVERS MODE selector.

⇄ ..... When playback of one side is completed, the tape stops.

⊃ ..... After completing playback of front side, the reverse side is played back. When playback of both sides is completed, the tape stops.

↻ ..... The front and the reverse sides are played back continuously.

A⇄B ..... After completing playback of both sides of the tape in deck A, both sides of the tape in deck B are played back. This cycle is repeated up to 8 times. (Refer to "Relay playback" for detail.)

- Select "TAPE" (the jack to which this unit is connected) of the input select buttons of the A-007 amplifier.
- Press either playback button to play back the cassette.

  ▶ ..... Front side of the cassette is played back.
  ◀ ..... Reverse side of the cassette is played back.

- By pressing ▶▶ or ◀◀ button during playback, you can locate the beginning of track. You can continue locating forward or reverse up to 8 tracks and start playback from the beginning of the track.
- During playback, if you change the deck to another one by pressing the deck A/B selector, the playback on the previous deck stops.
- Adjust the volume with the volume control of the A-007 amplifier.

RELAY PLAYBACK

- Insert cassettes in both deck A and B.
- The deck in which the cassette is inserted later is selected without pressing the deck A/B selector.
- Select the desired Dolby NR system with the DOLBY NR selector. Be sure to select the same system for playback as that used for recording. Otherwise, playback may not be performed properly.
- Select "A⇄B" with the REVERS MODE selector.
- Select deck A with the deck A/B selector. Then press ▶ button to play back the front side of the cassette.
- After playback of the cassette on deck A is completed, the cassette on deck B is played back. This cycle is repeated up to 8 times.

FAST FORWARD/REWINDING

- Select the deck to activate fast forwarding or rewinding with the deck A/B selector.
- In stop mode, press ◀◀ button or ▶▶ button.
  To fast forward, press the button of the same direction as that shown by the direction indicator. To rewind, press the button of the opposite direction.
- Pressing ◀◀ or ▶▶ button during playback locates the beginning of track. Neither fast forward nor rewinding can be done.
  To fast forward or rewind during playback, stop playback with the stop button. Then press ◀◀ or ▶▶ button.

TO LOCATE THE BEGINNING OF TRACK

You can locate the beginning of track by pressing the fast forward or rewind button during playback.

- During playback of the front side (▶), press ▶▶ to locate tracks after that track. Press ◀◀ to locate tracks before that track.
- During playback of the reverse side (◀), press ▶▶ to locate tracks before that track. Press ◀◀ to locate tracks after that track.
- When you start locating at the interspace between tracks, up to 8 tracks each forward and backward can be located.
  When the backward locating is started during playback, the present track is located as the first one and more 7 tracks can be located. When the forward locating is started during playback, 8 tracks can be located.

DUBBING

- Insert a recorded cassette in deck A and a cassette for recording in deck B.
- The deck in which the cassette is inserted later is selected without pressing the deck A/B selector.
- Press the X1 or X2 dubbing button.
  To perform dubbing at normal speed, press X1.
  To perform dubbing at double speed, press X2.
  By pressing of the dubbing button, deck A enters playback mode and simultaneously deck B enters recording mode.
- The dubbing on deck B is performed with the same recording level and Dolby NR system as those applied when the tape on deck A was recorded.
- During dubbing, the REC LEVEL control and REC BALANCE control do not function.
- When the REC PAUSE button or the AUTO MUTE button is pressed during dubbing, about 4 second interspace is provided on the tape on deck B, and the unit enters pause mode.
  To resume dubbing, press the blinking dubbing button.
- To stop dubbing, press the stop button.
  (Dubbing mode is automatically cleared when the tape on deck B reaches its end.)

If the unit is connected with an L component system (A-007, D-007, T-007, etc.), the remote control, timer-activated playback/recording, synchronized recording, etc. can be performed.

REMOTE CONTROL

When the BUS LINE jacks of an L component system are connected, you can operate the following buttons on the RA-007 remote control unit supplied with the A-007 amplifier. For further details, refer to the owners' manual of the A-007 amplifier.

Fast forward/rewind button .....

Reverse side playback button .....

Front side playback button .....

Deck A/B selector ..... A B

Stop button .....

REC PAUSE button .....

AUTO MUTE button .....

TIMER-ACTIVATED PLAYBACK/RECORDING

- When the BUS LINE jacks of the L component system are connected, timer-activated playback/recording can be performed with the timer built in the T-007 tuner.
- Set the starting and ending time for timer-activated playback/recording with the timer of the T-007 tuner. Press the timer button to turn on the timer indicator in the display window. For further details, refer to the owners' manual of the T-007 tuner.
- For timer-activated playback, select TAPE of the input select buttons of the A-007 amplifier. For timer-activated recording, select the program source to be recorded with the REC SELECTOR of the A-007 amplifier. Also set the program source so that the unit is set to playback mode on the preset time for timer-activated recording. For further details, refer to the owners' manual of the A-007 amplifier.
- Insert the cassette for timer-activated playback or for timer-activated recording.
  - Set the cassette for timer-activated recording on deck B. Make sure that the tab to prevent accidental erasure is not removed.
- Depress the TIMER REC button of this unit (ON).
- Press the POWER button of the A-007 amplifier to turn off the power of the L component system.
- Timer-activated playback or timer-activated recording will be performed at the preset time with the T-007 tuner.

SYNCHRONIZED RECORDING

When the BUS LINE jacks of the L component system are connected, synchronized recording (this unit is set to recording mode simultaneously with CD playing) can be performed simply by pressing the "synchro" button of the A-007 amplifier.

- Insert the cassette for recording in deck B.
- Adjust the recording level and balance.
- Press CD of the input select buttons and set REC SELECTOR to CD/ex. digital on the A-007 amplifier. For details, refer to the owner's manual of the A-007 amplifier.
- Load a compact disc on the D-007 compact disc player. For details, refer to the owner's manual of the D-007 compact disc player.
- Press the "synchro" button of the A-007 amplifier. D-007 starts playing and simultaneously this unit starts recording.
  - When CD playing is paused during synchronized recording, this unit provides about 4 second blank on the tape and enters pause mode.
    When the REC PAUSE button of this unit is pressed during synchronized recording, on the contrary, the D-007 compact disc player enters pause mode simultaneously.
  - When CD playing is stopped during synchronized recording, this unit provides about 4 second blank on the tape and stops recording.
    When the stop button of this unit is pressed during synchronized recording, on the contrary, the D-007 compact disc player stops play simultaneously.

Disassembly (Cabinet)

1. Removal of Top Cover

(1) Remove six screws marked "●" as shown in Figure 4.
(2) Pull out the top cover in the arrow direction as shown in Figure 4.

1．上蓋の取り外し方

(1) 6本のネジ "●" を外します。（4図参照）
(2) 上蓋を矢印の方向へ引き抜きます。（4図参照）

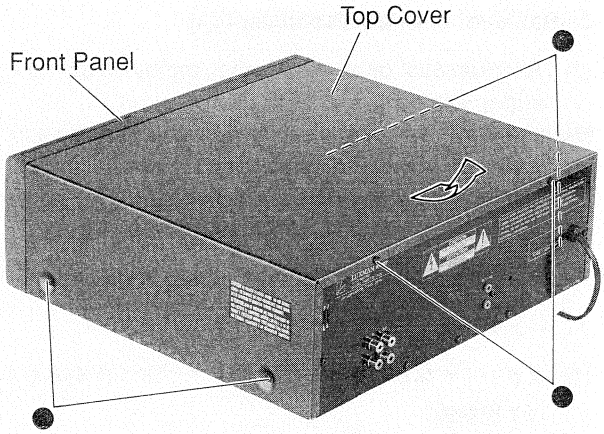


Figure 4
< 4図 >

2. Removal of Front Panel

(1) After removal of the top cover, remove four screws marked "O" as shown in Figure 5.
(2) Disconnect all wires from the Deck Mechanism (A)/(B), Key Switch P.C.Board, REC Pause P.C.Board, Reverse Mode Switch P.C.Board, REC Volume P.C.Board, Dubbing Switch P.C.Board and DIR Indicator P.C.Board (A)/(B).
(3) Front Panel with the Deck Mechanism (A)/(B), Key Switch P.C.Board, REC pause P.C.Board, Reverse Mode Switch P.C.Board, REC Volume P.C.Board, Dubbing Switch P.C.Board and DIR Indicator P.C.Board (A)/(B) can be removed completely.

2．フロントパネルの取り外し方

(1) 上蓋を外した後、4本のネジ "○" を取り外します。（5図参照）
(2) デッキメカ（A）（B）、キースイッチ基板、ＲＥＣポーズ基板、リバースモードスイッチ基板、ＲＥＣボリューム基板、ダビングスイッチ基板、ＤＩＲ表示基板（A）／（B）からすべてのワイヤーを外します。
(3) デッキメカ（A）／（B）のフロントパネルと、キースイッチ基板、ＲＥＣポーズ基板、リバースモードスイッチ基板、ＲＥＣボリューム基板、ダビングスイッチ基板、ＤＩＲ表示基板（A）／（B）は完全に取り外せます。

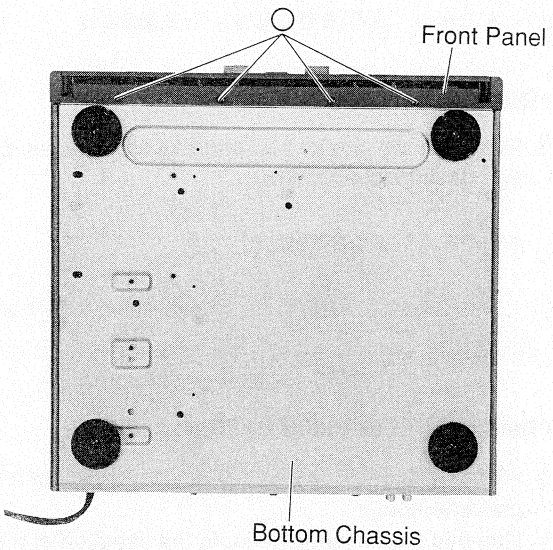


Figure 5
< 5図 >

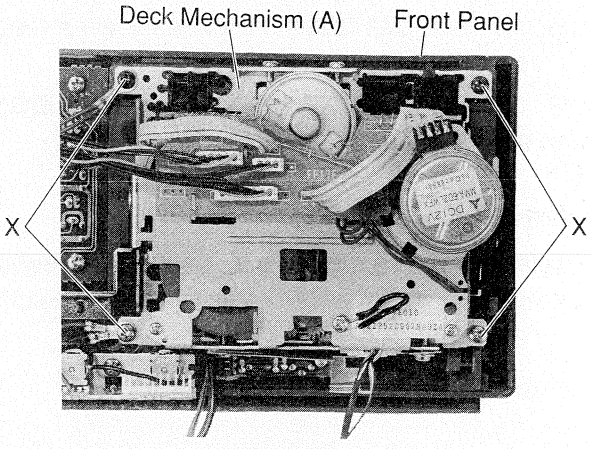


Figure 6
< 6図 >

3. Removal of Deck Mechanism (A)

(1) After removal of the front panel, remove a spring as shown in Figure 7.

Note: When the eject switch lever is pressed, the spring removed in 2 - (1) is released and the eject switch remains in the depressed position. When fixing the spring, apply bond to each end of the spring.

(2) Remove four screws marked "X" as shown in Figure 6.

3．デッキメカ（A）の取り外し方

(1) フロントパネルを取り外した後、スプリングを外します。（7図参照）

《注意》イジェクトSWレバーを押すと2－(1) で外したバネが外れ、イジェクトSWが押したままの状態になりますので、バネ取付け時、バネ両端をボンド付けして下さい。

(2) 4本のネジ"X"を外します。（6図参照）

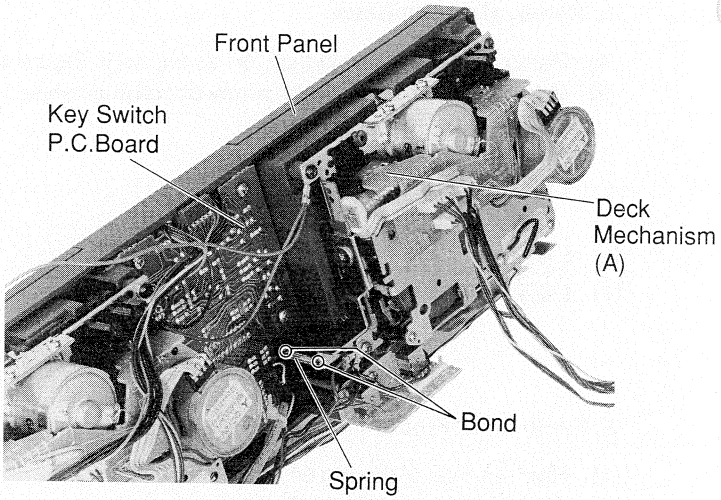


Figure 7
＜7図＞

4. Removal of Deck Mechanism (B)

(1) Remove four screws and a spring as same as removing the deck Mechanism (A).

4．メカデッキ（B）の取り外し方

(1) メカデッキ（A）と同様に、4本のネジとスプリングを取り外します。

5. Removal of DIR Indicator P.C.Board (A)

(1) After removal of the deck mechanism (A), open the cassette holder.

(2) Remove the cassette cover in the direction of the arrow as shown in Figure 8.

(3) Remove two hooks (A) as shown in Figure 9.

5．ＤＩＲ表示基板（A）の取り外し方

(1) メカデッキ（A）を取り外してカセットホルダーを開けます。

(2) カセットカバーを矢印の方向に外します。（8図参照）

(3) 2箇所のフック（A）を外します。（9図参照）

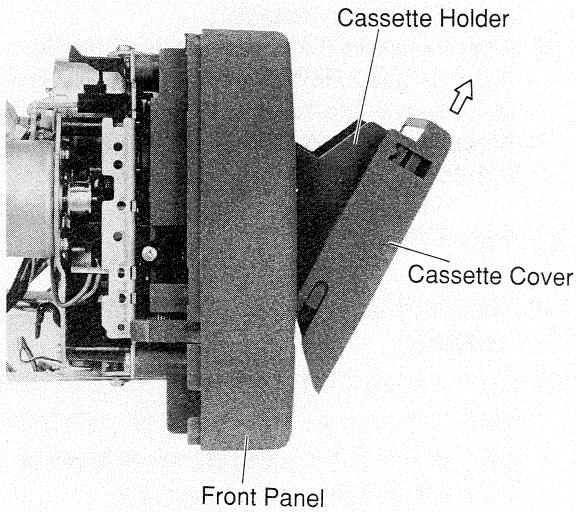


Figure 8
＜8図＞

6. Removal of DIR Indicator P.C.Board (B)

(1) After removal of the deck mechanism (B), remove the cassette cover and two hooks as same as removing the DIR indicator P.C.Board (A).

6．ＤＩＲ表示基板（B）の取り外し方

(1) メカデッキ（B）を外してから、カセットカバーと2箇所のフックをＤＩＲ表示基板（A）と同様に取り外します。

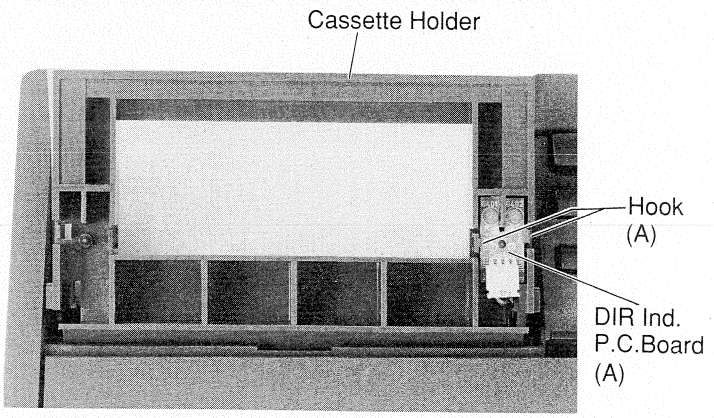


Figure 9
＜9図＞

7. Removal of Dolby P.C.Board

(1) After removal of the top cover, remove two P.C.Board supports (A), by pushing the "B" point as shown in Figures 10 and 11.
(2) Disconnect all connectors from the P.C.Board.

7．ドルビー基板の取り外し方

(1) 上蓋を外した後、2箇所の基板サポート（A）をB部を押して、外します。（10図、11図参照）
(2) 基板からコネクターをすべて外します。

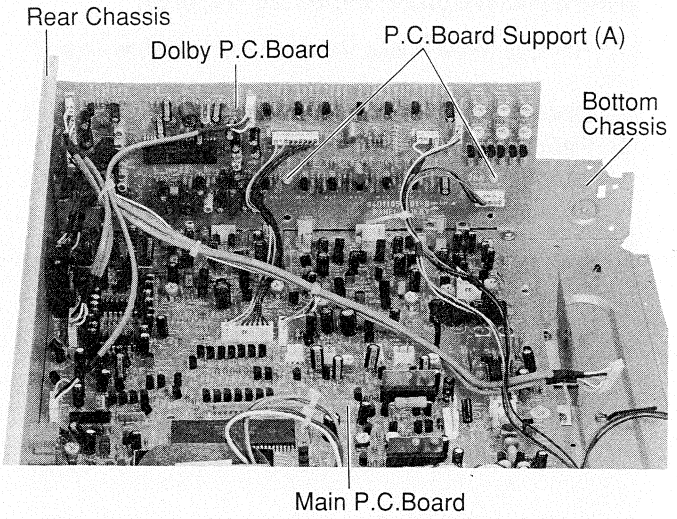


Figure 10
＜10図＞

8. Removal of Main P.C.Board

(1) After removal of the front panel and dolby P.C.Board, remove five screws marked "Δ" as shown in Figures 12 and 13.
(2) Remove four P.C.Board supports (B), by pushing "B" point as shown in Figures 12 and 11.
(3) Disconnect all wires from the P.C.Board.

8．メイン基板の取り外し方

(1) フロントパネル及びドルビー基板を取り外した後、5本のネジ"△"を外します。（12図、13図参照）
(2) 4箇所の基板サポート（B）をB部を押して外します。（12図、11図参照）
(3) 基板からワイヤーを全て外します。

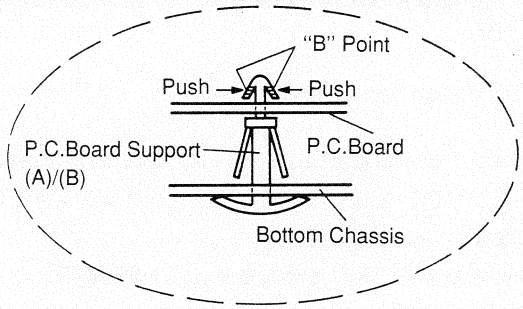


Figure 11
＜11図＞

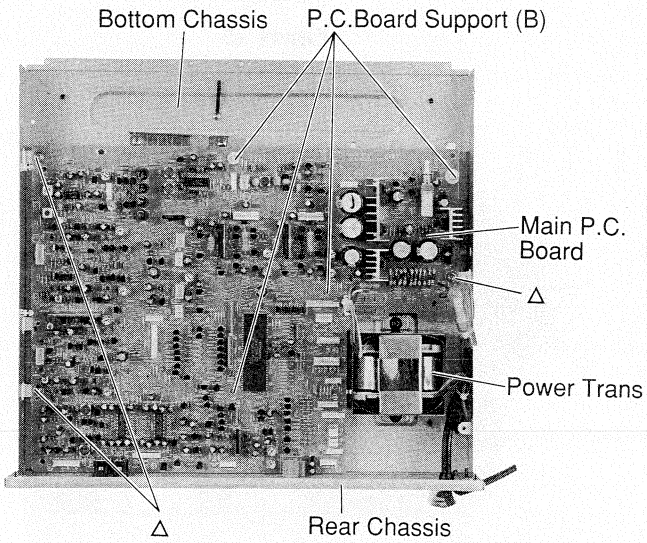


Figure 12
＜12図＞

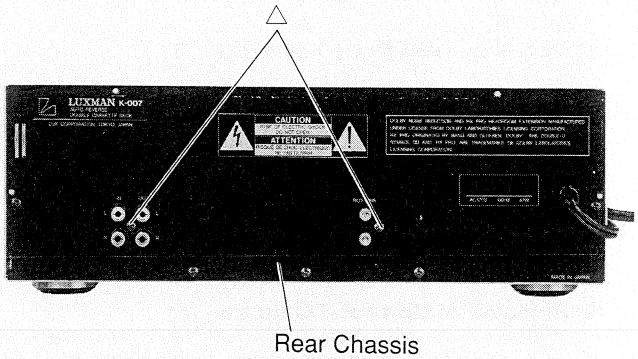


Figure 13
＜13図＞

Disassembly (Deck Mechanism)

1. Removal of Control P.C.Board - (1) to (3)

(1) Remove three hooks (A) as shown in Figure 14 and 15.
(2) Disconnect all wires from the control P.C.Board - (1).
(3) Pull out the control P.C.Board - (1) to (3) in the direction of the arrow, by removing two hooks (B) as shown in Figure 1.

1．コントロール基板（1）～（3）の取り外し方

(1) 3本のフック（A）を外します。（14図、15図参照）
(2) コントロール基板（1）からワイヤーを全て外します。
(3) 2本のフック（B）を外し、コントロール基板（1）～（3）を矢印の方向に引き抜きます。（1図参照）

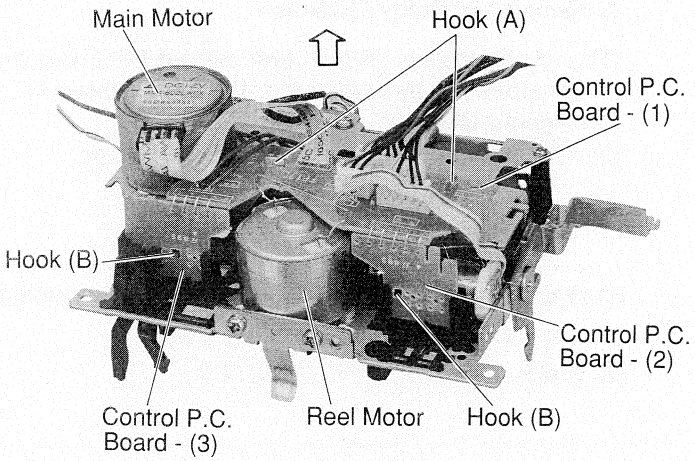


Figure 14
＜14図＞

2. Removal of Main Motor

(1) After removal of the control P.C.Board - (1) to (3), remove the main motor bracket by removing three screws marked "O" as shown in Figure 14.
(2) Remove two screws marked "X" as shown in Figure 16.

2．メインモーターの取り外し方

(1) コントロール基板（1）～（3）を取り外した後、3本のネジ"○"を外し、メインモーターブラケットを取り外します。（14図参照）
(2) 2本のネジ"X"を外します。（16図参照）

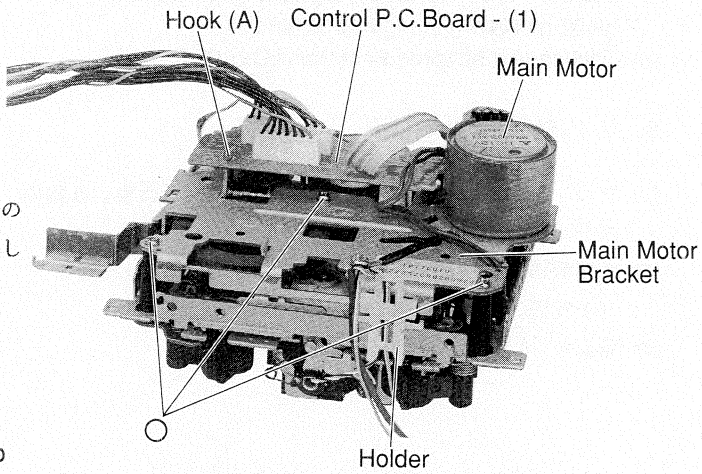


Figure 15
＜15図＞

3. Removal of Control P.C.Board - (4)

(1) After removal of the main motor bracket, remove two flywheels by removing two washers (A) as shown in Figures 17 and 18.
(2) Remove the hook (B) as shown in Figure 18.

3．コントロール基板（4）の取り外し方

(1) メインモーターブラケットを取り外した後、2枚のワッシャー（A）を外して、2個のフライホイールを引き抜きます。（17図、18図参照）
(2) フック（B）を取り外します。（18図参照）

4. Removal of Control P.C.Board - (5)

(1) After removal of two flywheels, remove two hook (C) as shown in Figure 18.

4．コントロール基板（5）の取り外し方

(1) 2個のフライホイールを引き抜いた後、2本のフック（C）を外します。（18図参照）

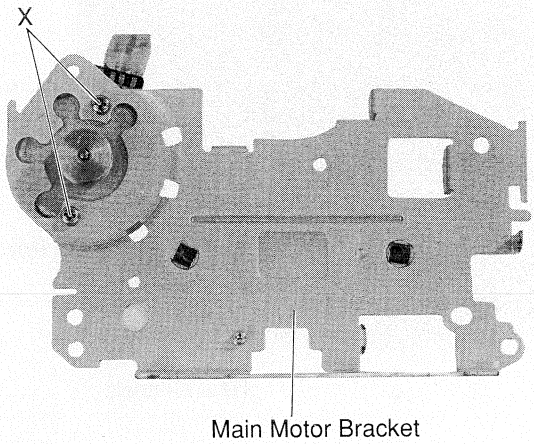


Figure 16
＜16図＞

5. Removal of Head

(1) Remove two screws marked "△" after removing the holder as shown in Figures 15 and 18.

5．ヘッドの取り外し方

(1) ホルダー外し、2本のネジ "△" を外します。（15図、18図参照）

6. Removal of Reel Motor

(1) After removal of two flywheels, remove two pinch rollers by removing two hooks (D) as shown in Figure 18.
(2) Remove the head bracket, by removing a spring and a screw marked "□" as shown in Figures 18 and 19.
(3) Remove a spring (B) as shown in Figure 19.
(4) Remove the play arm by removing a hook (E) as shown in Figure 19.
(5) Remove the slide plate with cam gear as shown in Figure 19.
(6) Remove the hold lever by removing a spring (C) as shown in Figure 18.
(7) Remove two screws marked "*" as shown in Figure 18.

6．リールモーターの取り外し方

(1) 2個のフライホイールを外した後、2本のフック（D）を外し、2つのピンチローラーを取り外します。（18図参照）
(2) スプリング及びネジ "□" を外し、ヘッドブラケットを取り外します。（18図、19図参照）
(3) スプリング（B）を取り外します。（19図参照）
(4) フック（E）を取り外し、プレイアームを外します。（19図参照）
(5) スライドプレートとカムギアを取り外します。（19図参照）
(6) スプリング（C）を取り外し、ホールドレバーを外します。（18図参照）
(7) 2本のネジ "*" を外します。（18図参照）

7. Removal of Solenoid

(1) After removal of the play arm, remove a screw marked "☆" as shown in Figure 18 .

7．ソレノイドの取り外し方

(1) プレイアームを取り外した後、ネジ "☆" を外します。（18図参照）

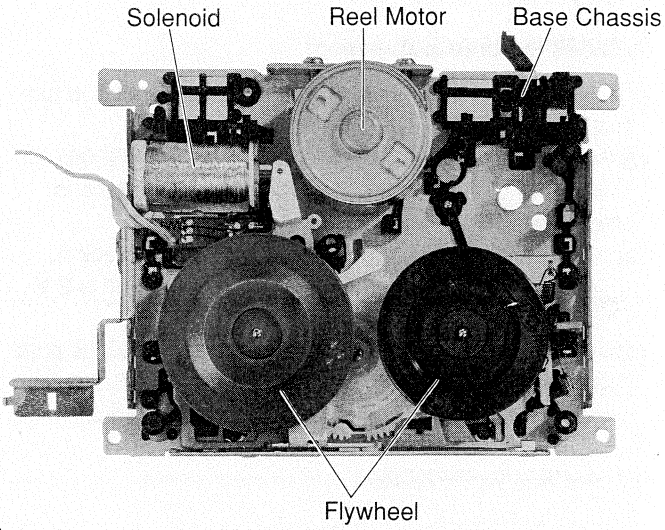


Figure 17
< 17図 >

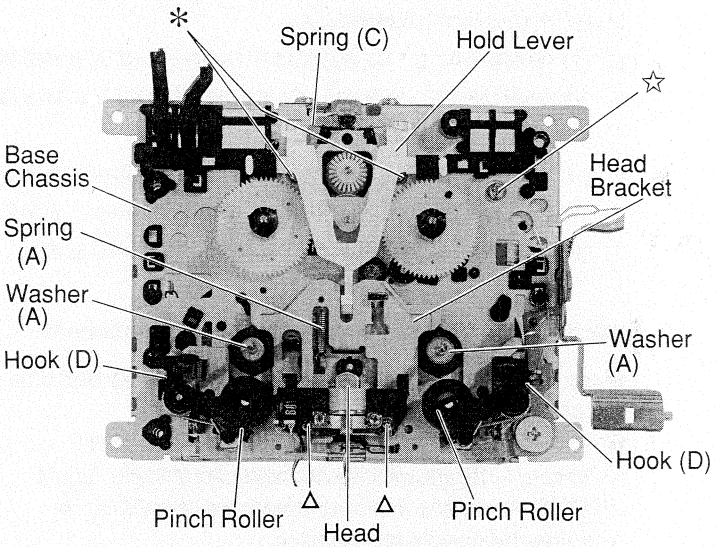


Figure 18
< 18図 >

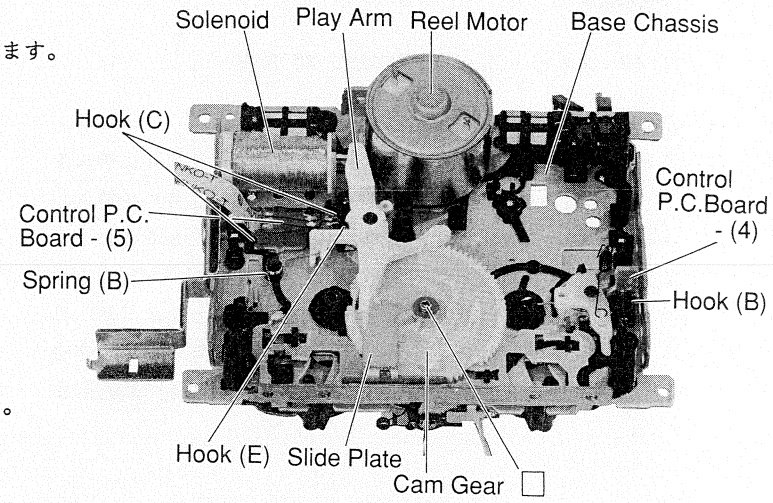


Figure 19
< 19図 >

Adjustments

1. Quick Reverse Adjustment

(1) Make the connections as shown in Figure 20 and turn the power ON.
(2) Insert a blank tape into deck A and adjust VR6061 so that the TP6002 output is 2 V DC when the tape is played back.
(3) Insert a blank tape into deck B as in (2) for deck A, and adjust VR6062 so that the TP6001 output is 2 V DC when the tape is played back.
(4) Insert test tape AC712 into both decks and make sure that the TP6002 and TP6001 outputs are 0.6 V or less (preferably lower) when the tape is played back.

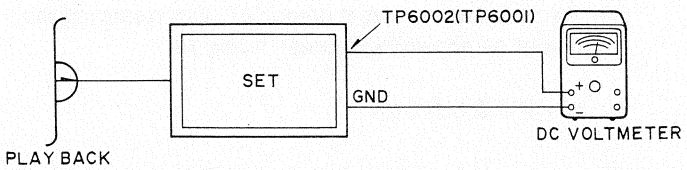


Figure 20
＜２０図＞

１．クイックリバース調整

(1) ２０図の様に接続し、電源をＯＮします。
(2) "A" ＤＥＣＫにＢＬＡＮＫ　ＴＡＰＥ（テープ無し）を挿入し再生した時、ＴＰ６００２の出力がＤＣ２Ｖになる様、ＶＲ６０６１で調整する。
(3) (2) と同様に "B" ＤＥＣＫにＢＬＡＮＫ　ＴＡＰＥを挿入し再生した時、ＴＰ６００１の出力がＤＣ２Ｖになる様、ＶＲ６０６２で調整する。
(4) テストテープＡＣ７１２を各デッキに挿入し再生したとき、ＴＰ６００２、ＴＰ６００１の出力がそれぞれ０．６Ｖ以下（低い程望ましい）になっていることを確認します。

2. Tape Speed (Double Speed Dubbing) Adjustment

(1) Make the connections as shown in Figure 21 and turn the power ON.
(2) Ground TP6071, insert the test tape MTT-111N (3 kHz, –10 dB) into deck A and play it back. Adjust VR6072 so that the line output becomes 6.000 Hz when the tape is played back.
(3) Ground TP6072 as in (2) for TP6071, insert the test tape into deck B and adjust VR6074 so that the line output becomes 6.000 Hz when the tape is played back.

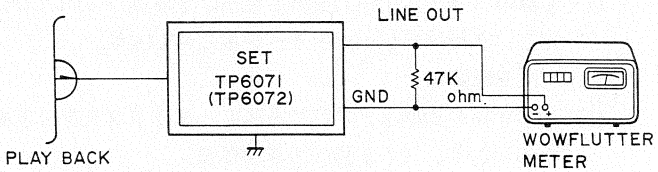


Figure 21
＜２１図＞

２．テープスピード（２倍速ダビング）調整

(1) ２１図の様に接続し電源をＯＮします。
(2) ＴＰ６０７１をＧＮＤに落とし、"A" ＤＥＣＫにテストテープＭＴＴ－１１１Ｎ（３ＫＨｚ－１０ｄＢ）を挿入し再生します。この時ライン出力の出力が６，０００Ｈｚになる様、ＶＲ６０７２で調整します。
(3) (2) と同様に、ＴＰ６０７２をＧＮＤに落とし、"B" ＤＥＣＫにテストテープを挿入し、再生した時のライン出力の出力が６，０００Ｈｚになる様ＶＲ６０７４で調整します。

3. Tape Speed (Same Speed Dubbing) Adjustment

(1) Make the connections as shown in Figure 21 and turn the power ON.
(2) Insert test tape MTT-111N (3 kHz, −10 dB) into deck A and play it back. Adjust VR6071 so that the line output during playback becomes 3.000 Hz i.e. that the wow and flutter is 0.12% (JIS WTD) or less.
(3) Insert the test tape into deck B as in deck A and adjust VR6073 so that the line output becomes 3.000 Hz when the tape is played back. Make sure that the wow and flutter at that time is 0.12% (JIS WTD) or less.

3．テープスピード（等速ダビング）調整

(1) ２１図の様に接続し電源をＯＮします。
(2) "A" ＤＥＣＫにテストテープＭＴＴ－１１１Ｎ（３ＫＨｚ－１０ｄＢ）を挿入し再生します。この時、ライン出力の出力が３，０００Ｈｚかつワウフラッターが０．１２％（ＪＩＳ　ＷＴＤ）以下になる様ＶＲ６０７１で調整します。
(3) (2) と同様に、"B" ＤＥＣＫにテストテープを挿入し、再生した時のライン出力の出力が３，０００Ｈｚになる様、ＶＲ６０７３で調整します。この時、ワウフラッターが０．１２％（ＪＩＳ　ＷＴＤ）以下であるか確認します。

4. Playback Output Adjustment

(1) Make the connections as shown in Figure 22 and turn the power ON.
(2) Insert test tape MTT150 into deck A and play it back. Adjust VR2001 (VR2002) so that the line output L(R) becomes 550 mV.
(3) Insert the test tape into deck B as in deck A and adjust VR2101 (VR2102) so that the line output L (R) becomes 550 mV.

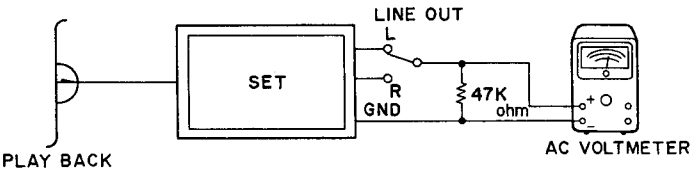


Figure 22
＜２２図＞

4．再生出力調整

(1) ２２図の様に接続し、電源をＯＮします。
(2) "A" ＤＥＣＫにテストテープＭＴＴ１５０を挿入し再生します。この時、ライン出力Ｌ（Ｒ）の出力が５５０ｍＶになる様、ＶＲ２００１（ＶＲ２００２）で調整します。
(3) (2) と同様に、"B" ＤＥＣＫにテストテープを挿入し再生した時、ライン出力Ｌ（Ｒ）の出力が５５０ｍＶになる様、ＶＲ２１０１（ＶＲ２１０２）で調整します。

5. Head Azimuth Adjustment

(1) Make the connections as shown in Figure 23 and turn the power ON.
(2) Insert test tape MTT114N (10 kHz, −10 dB) and play it back. Adjust the head azimuth adjustment screws of deck A, as shown in Figure 30, so that the right and left line outputs are maximum and have the same phase in both the normal and reverse direction.
(3) Insert the test tape into deck B as in deck A and adjust the head azimuth adjustment screws of deck B, as shown in Figure 31, so that the right and left line outputs are maximum and have the same phase in both the normal and reverse direction.

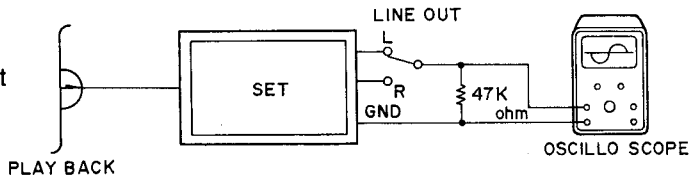


Figure 23
＜２３図＞

５．ヘッドアジマス調整

(1) ２３図の様に接続し電源をＯＮします。
(2) "A" ＤＥＣＫにテストテープＭＴＴ１１４Ｎ（１０ＫＨｚ－１０ｄＢ）を挿入し再生します。この時、左右のライン出力の出力がノーマル、リバース側について最大かつ同位相になる様 "A" ＤＥＣＫのヘッドアジマス調整ネジ（３０図参照）で調整します。
(3) (2) と同様に "B" ＤＥＣＫにテストテープを挿入し、再生した時、左右のライン出力の出力がノーマル、リバース側について最大かつ同位相である様 "B" ＤＥＣＫのヘッドアジマス調整ネジ（３１図参照）で調整します。

6. Input Sensitivity Check

(1) Make the connections as shown in Figure 24 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume to the maximum.
(3) Input the 400 Hz/150 mV +/−2 dB (oscillator output) signal into the line input in the mode set in (2) and make sure that the line output is 550 mV at that time.

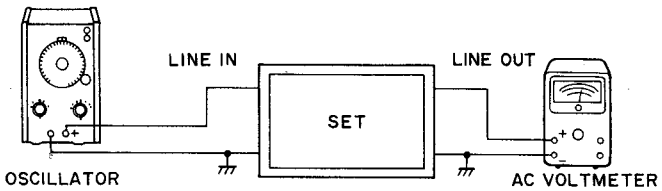


Figure 24
＜２４図＞

６．入力感度確認

(1) ２４図の様に接続し、電源をＯＮします。
(2) "B" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）挿入し、ＲＥＣ　ＰＬＡＹ状態にします。
この時ＲＥＣ　ＬＥＶＥＬボリュームを最大にします。
(3) (2)の状態でライン入力に４００Ｈｚ、１５０ｍＶ±２ｄＢ（オシレーター出力）の信号を入力した時、ライン出力の出力が５５０ｍＶであることを確認します。

7. Meter Adjustment

(1) Make the connection as shown in Figure 24 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume to the maximum.
(3) Input the 400 Hz/150 mV +/–2 dB (oscillator output) signal to the line input in the mode set in (2), and adjust the line output to 550 mV at that time. Adjust VR8001 (VR8002) observing the level meter of the set so that all the level indicator lamps of L (R) light up at once, and then readjust it so that the +6 indicator lamp goes out.

7．メーター調整

(1) ２４図の様に接続し、電源をＯＮします。
(2) "B" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）を挿入し、ＲＥＣ　ＰＬＡＹ状態にします。この時ＲＥＣ　ＬＥＶＥＬボリュームを最大にします。
(3) (2) の状態でライン入力に４００Ｈｚ、１５０ｍＶ±２ｄＢ（オシレーター出力）の信号を入力した時、ライン出力を５５０ｍＶに合わせます。次にセットのレベルメーターを見ながらＶＲ８００１（ＶＲ８００２）を調節し、Ｌ（Ｒ）のＬＥＶＥＬ表示灯を一旦全灯させ、＋６の表示灯が消える様、ＶＲ８００１（ＶＲ８００２）で調整します。

8. Bias Adjustment

(1) Make the connections as shown in Figure 25 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode.
(3) Adjust L5101 so that the TP5101 output becomes 105 kHz +/– 0.1 kHz in the mode set in (2).

8．バイアス調整

(1) ２５図の様に接続し、電源をＯＮします。
(2) "B" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）を挿入しＲＥＣ　ＰＬＡＹ状態にします。
(3) (2) の状態でＴＰ５１０１の出力が１０５ＫＨｚ±０．１ＫＨｚになる様Ｌ５１０１で調整します。

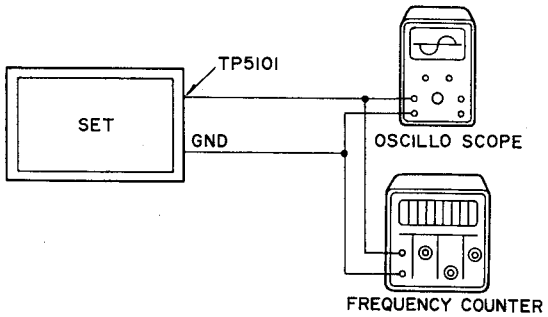


Figure 25
＜２５図＞

9. HX Coil Peak Adjustment

(1) Make the connections as shown in Figure 26 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode.
(3) Set the metal bias volume VR5071 (VR5072) to the maximum in the mode set in (2). Adjust L5051 (L5052) so that the output of TP5005 (TP5006) becomes maximum.

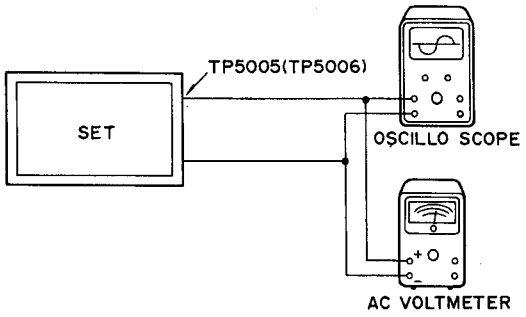


Figure 26
＜２６図＞

９．ＨＸコイルピーク調整

(1) ２６図の様に接続し、電源をＯＮします。
(2) "B" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）を挿入し、ＲＥＣ　ＰＬＡＹ状態にします。
(3) (2) の状態でＭＥＴＡＬバイアスボリュームＶＲ５０７１（ＶＲ５０７２）を最大にします。次にＴＰ５００５（ＴＰ５００６）の出力が最大になる様、Ｌ５０５１（Ｌ５０５２）で調整します。

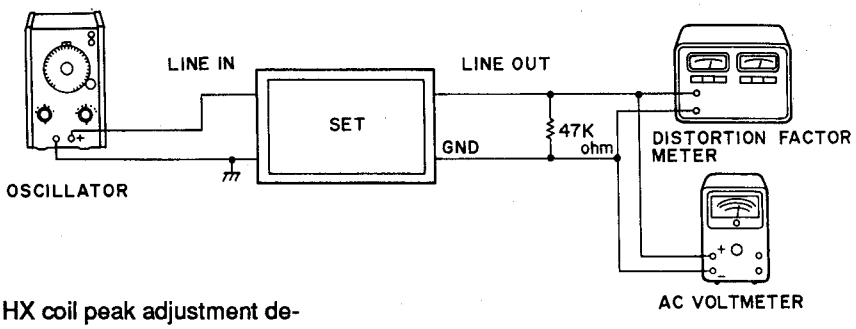


Figure 27
＜２７図＞

10. REC/PLAY Adjustment

(1) After having finished the HX coil peak adjustment described in Item 9, temporarily adjust VR5071 (VR5072) so that the TP5005 (TP5006) output becomes 65 mV.
(2) Make the connections as shown in Figure 27, input 400 Hz/ 150 mV +/–2 dB (oscillator output) to the line input, insert the metal tape (TDK AC-712) into deck B and record on it. (Set the REC LEVEL volume to the maximum.)
(3) Adjust VR5001 (VR5002) so that the line output L (R) becomes 550 mV with a distortion of 1 to 2% when the recorded section is played back.

１０．ＲＥＣ／ＰＬＡＹ調整

(1) 項目９のＨＸコイルピーク調整が終った状態でＴＰ５００５（ＴＰ５００６）の出力が６５ｍＶになる様ＶＲ５０７１（ＶＲ５０７２）を仮調整します。
(2) 次に２７図の様に接続し、４００Ｈｚ　１５０ｍＶ±２ｄＢ（オシレーター出力）ライン入力に入力し、"B" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）を挿入し、録音します。（この時ＲＥＣ　ＬＥＶＥＬ　ボリュームは最大とする）
(3) (2) で録音した部分を再生した時、ライン出力Ｌ（Ｒ）の出力が５５０ｍＶ、歪１～２％になる様、ＶＲ５００１（ＶＲ５００２）で調整します。

11. Adjustment of the REC/PLAY frequency response

(1) Make the connections as shown in Figure 28 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume to the maximum.
(3) Input the signal that has been reduced by 25 dB from the 400 Hz/150 mV ± 2 dB signal (DOLBY LEVEL reference input) to the line input, and set the output value of the line output L (R) to the reference value.
(4) Adjust VR5071 (VR5072) so that the output value of the line output L (R) becomes equal to the reference value when the signal that has been reduced by 25 dB from the12.5 kHz/150mV ±2 dB signal is input to the line input.
(5) Insert the CrO_2 tape (TDK AC-512) as in (2), and set to REC PLAY mode. Input the signal that has been reduced by 25 dB from the 400 Hz/150 mV ±2 dB signal (DOLBY LEVEL reference input), and set the output value of the line output L (R) to the reference value as in (3) and (4). Adjust VR5073 (VR5074) so that the output level when the 12.5 kHz/–25 dB signal is input becomes equal to the reference value.
(6) Insert the normal tape (TDK AC-223) as in (2), and set to REC PLAY mode. Input the signal that has been reduced by 25 dB from the 400 Hz/150 mV ±2 dB signal (DOLBY LEVEL reference input), and set the output value of the line output L (R) to the reference value as in (3) and (4). Adjust VR5075 (VR5076) so that the output level when the 12.5 kHz/–25 dB signal is input becomes equal to the reference value.

* When making the adjustments, follow the Items 1 through 11 strictly in this order.

１１．ＲＥＣ／ＰＬＡＹ周波数特性調整

(1) ２８図の様に接続し電源をＯＮにします。
(2) "Ｂ" ＤＥＣＫにＭＥＴＡＬ　ＴＡＰＥ（ＴＤＫ　ＡＣ－７１２）を挿入し、ＲＥＣ　ＰＬＡＹ状態にします。この時、ＲＥＣ　ＬＥＶＥＬボリュームは最大にします。
(3) (2) の状態でライン入力に４００Ｈｚ、１５０ｍＶ±２ｄＢ（ＤＯＬＢＹ　ＬＥＶＥＬ基準入力）から－２５ｄＢだけ下げた状態の信号を入力した時のライン出力Ｌ（Ｒ）の値を基準値とします。
(4) ライン入力に１２．５ＫＨｚ、１５０ｍＶ±２ｄＢの信号から－２５ｄＢ下げた状態の信号を入力した時、ライン出力Ｌ（Ｒ）の出力値が基準値と等しくなる様、ＶＲ５０７１（ＶＲ５０７２）で調整します。
(5) (2) と同様にＣｒＯ２ ＴＡＰＥ（ＴＤＫ　ＡＣ－５１２）を挿入し、ＲＥＣ　ＰＬＡＹ状態にします。次に(3) (4) と同様に４００Ｈｚ、１５０ｍＶ±２ｄＢ（ＤＯＬＢＹ ＬＥＶＥＬ基準入力）から－２５ｄＢ下げた状態の信号を入力した時のライン出力Ｌ（Ｒ）の値を基準値とし、１２．５ＫＨｚ－２５ｄＢの信号を入力した時の出力の値が基準値と等くなる様ＶＲ５０７３（ＶＲ５０７４）で調整します。
(6) (2) と同様にノーマル　ＴＡＰＥ（ＴＤＫ　ＡＣ－２２３）を挿入し、ＲＥＣ　ＰＬＡＹ状態にします。次に(3) (4) と同様に４００Ｈｚ、１５０ｍＶ±２ｄＢ（ＤＯＬＢＹ ＬＥＶＥＬ基準入力）から－２５ｄＢ下げた状態の信号を入力した時のライン出力Ｌ（Ｒ）の値を基準値とし、１２．５ＫＨｚ－２５ｄＢの信号を入力した時の出力の値が基準値と等しくなる様、ＶＲ５０７５（ＶＲ５０７６）で調整します。

※調整は項目１～１１に順序よく行なって下さい。

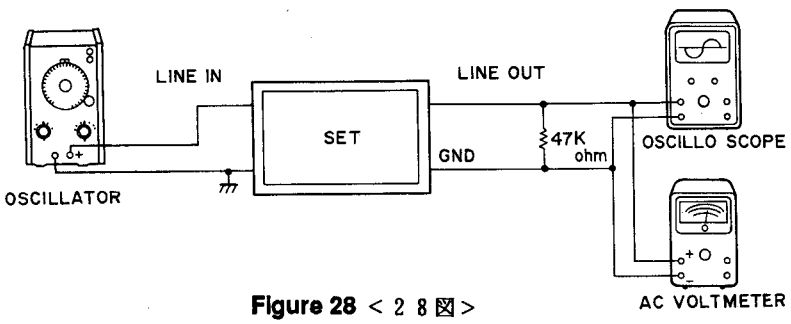


Figure 28 ＜２８図＞

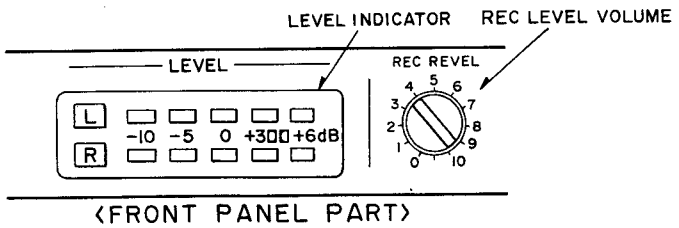


Figure 29 ＜２９図＞

Adjustment Points

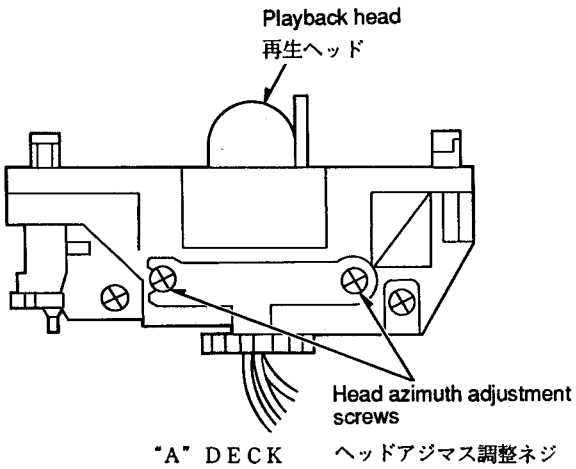


Figure 30
＜３０図＞

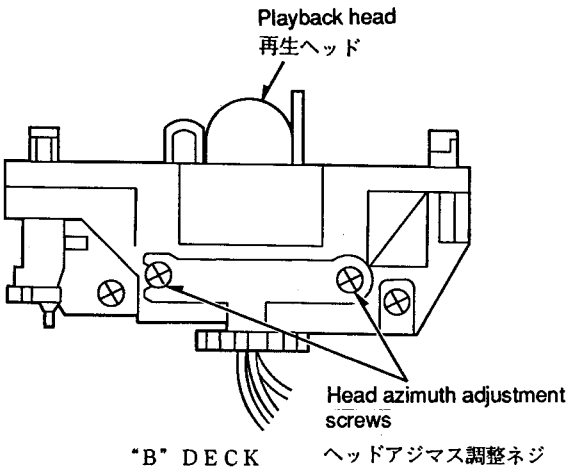


Figure 31
＜３１図＞

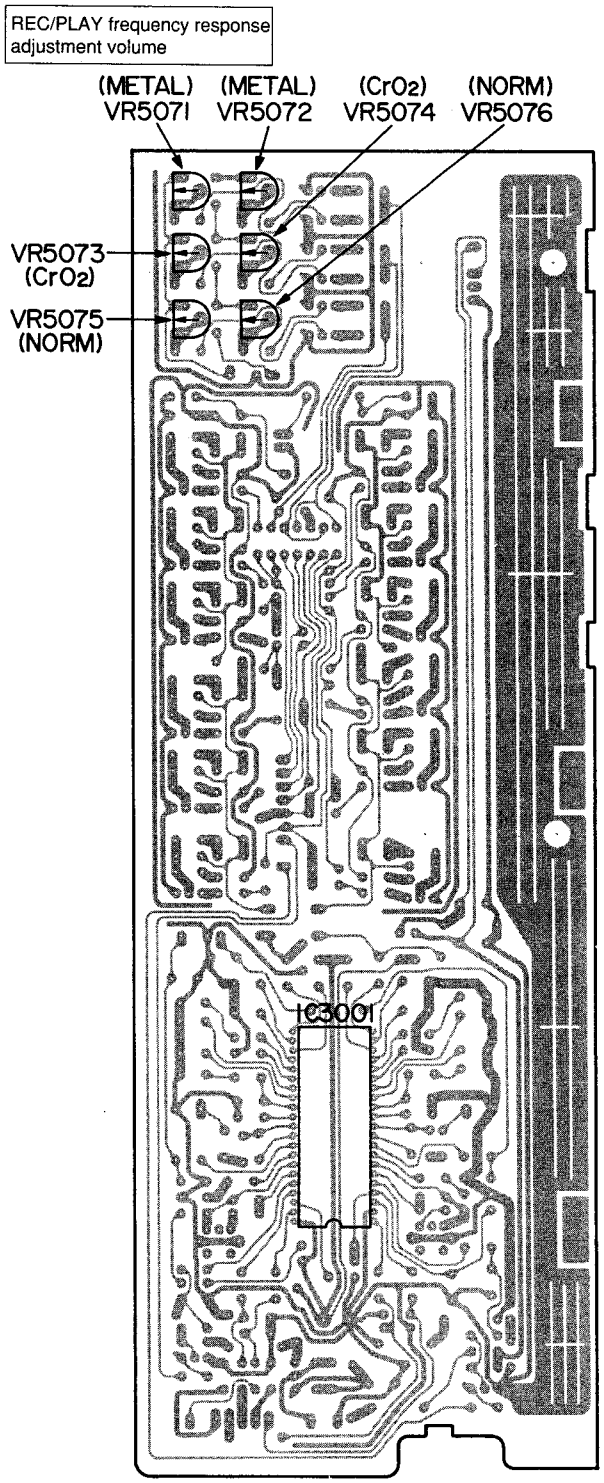


Figure 32 Dolby PC Board (Component side)
＜３２図＞ドルビー基板（部品面）

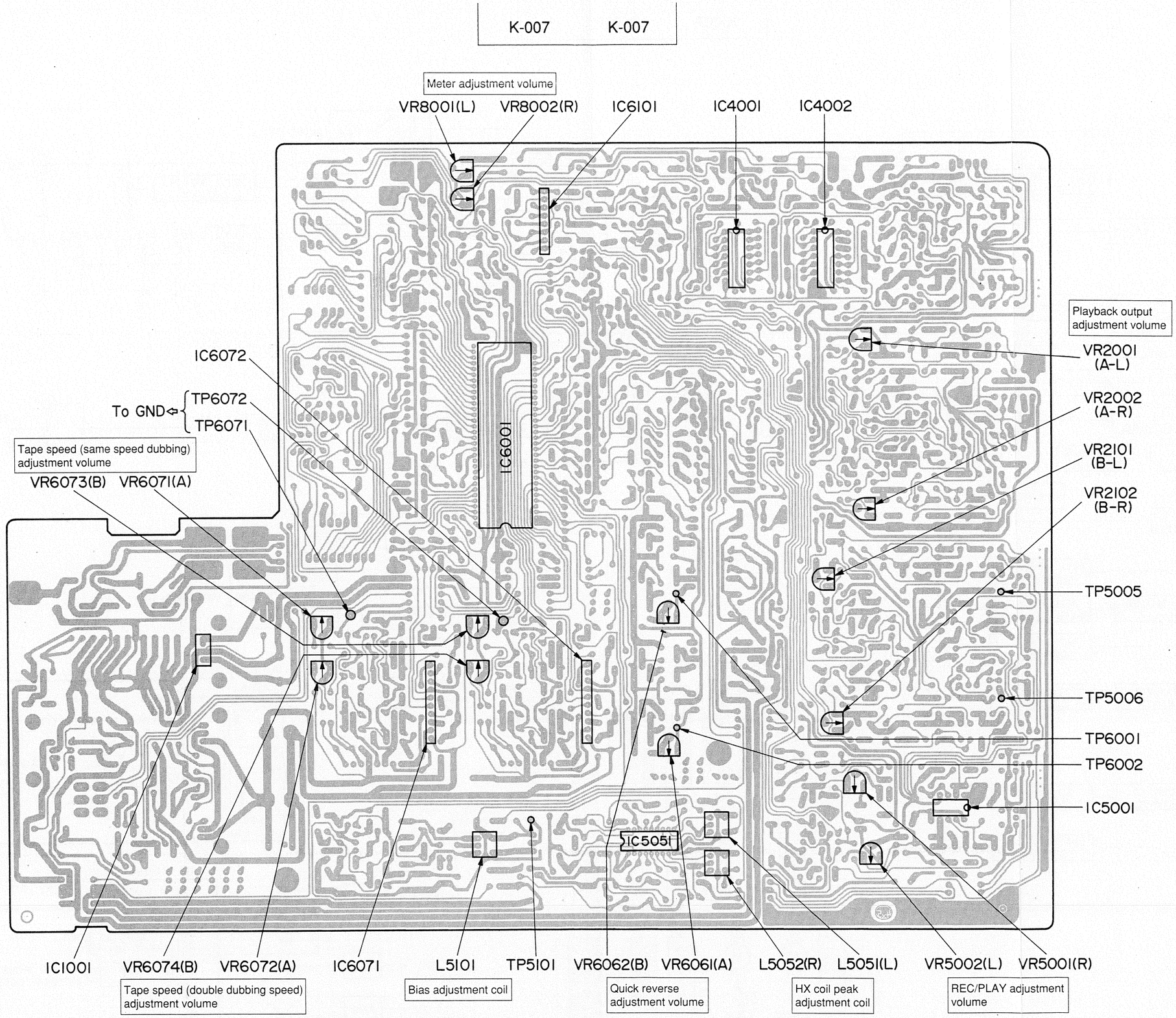
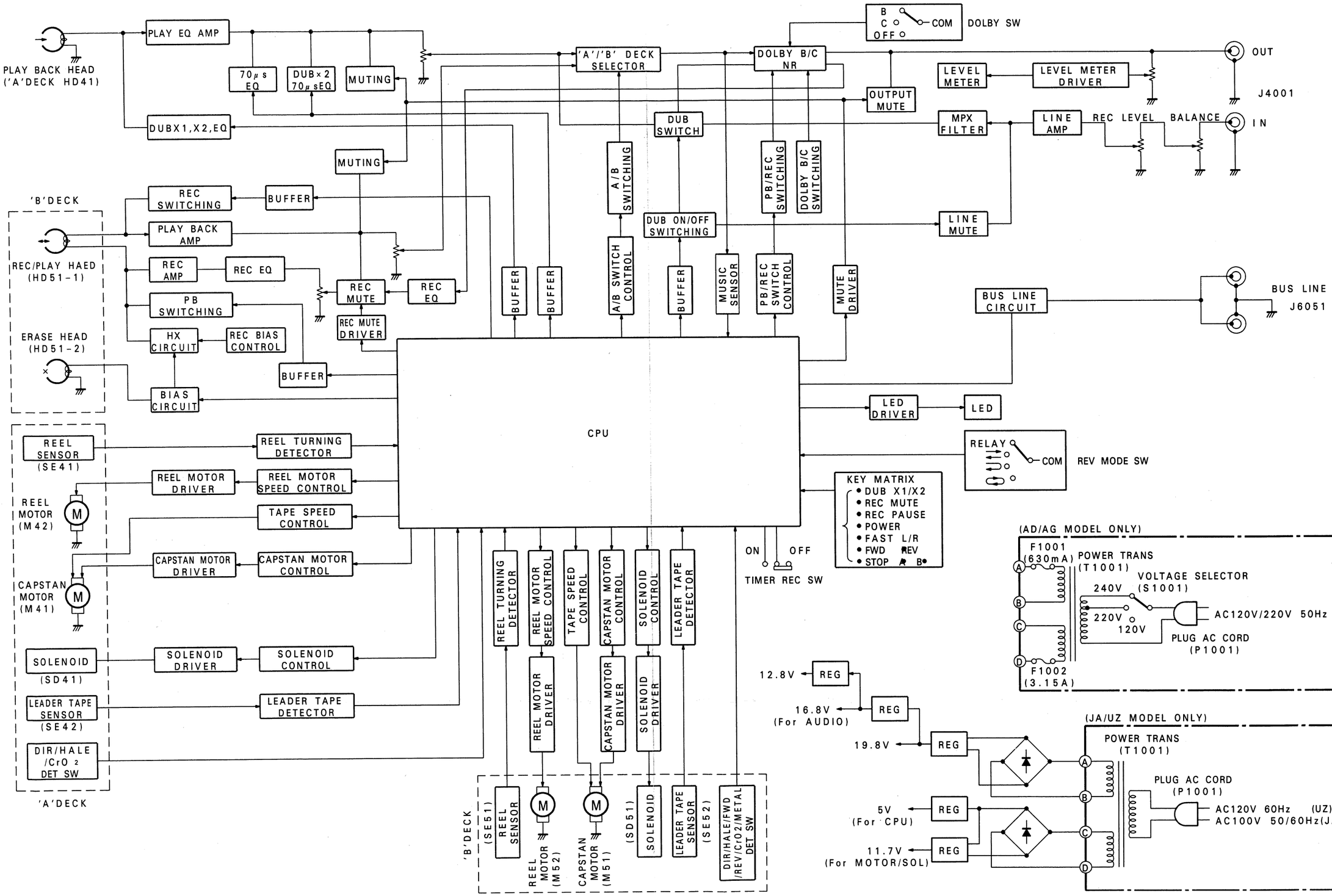


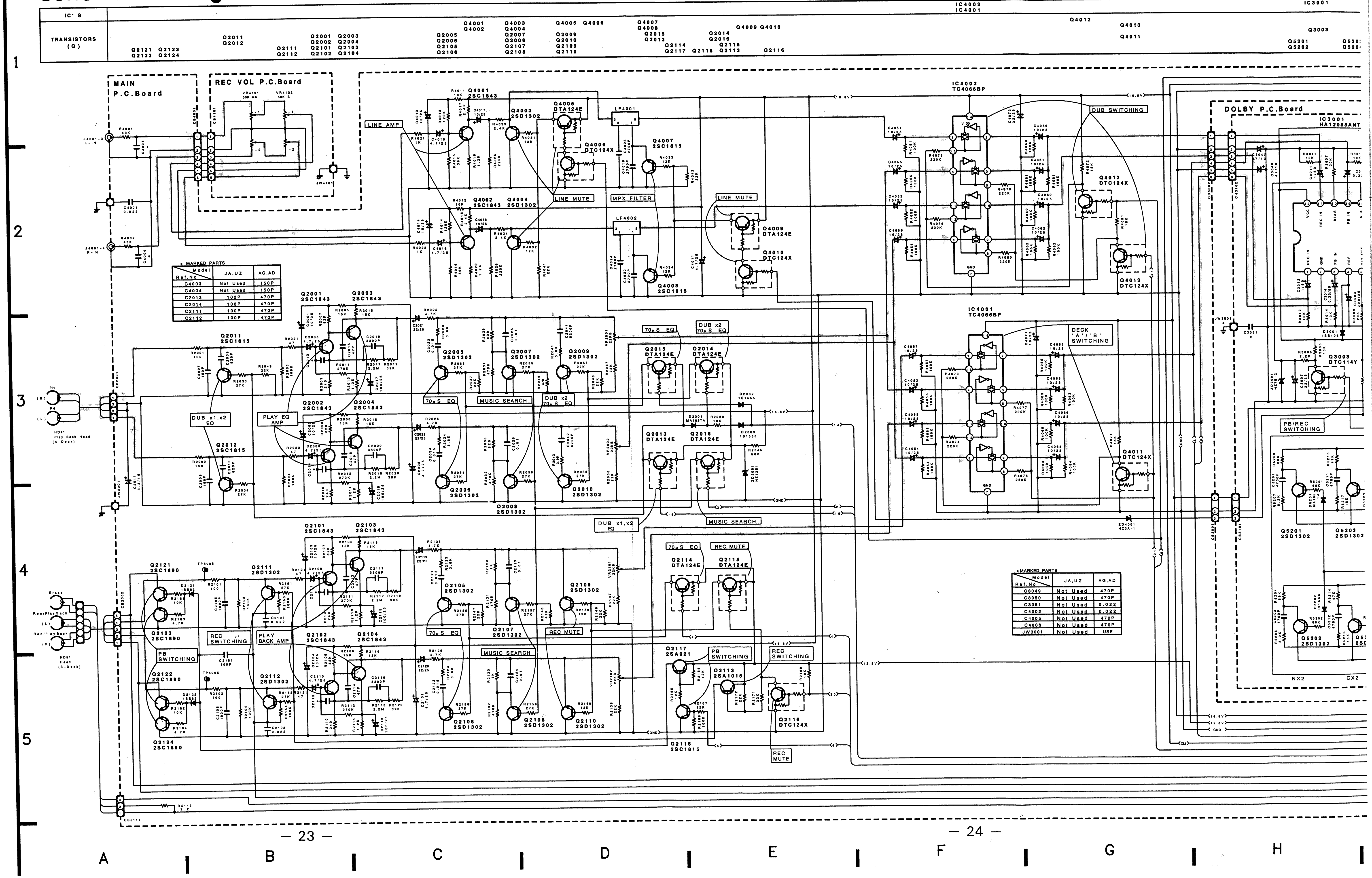
Figure 33 Main PC Board (Component side)

＜３３図＞ メイン基板（部品面）

Block Diagram



Schematic Diagram (1/3)



* MARKED PARTS

Ref.No \ Model	JA,UZ	AG,AD
C4003	Not Used	150P
C4004	Not Used	150P
C2013	100P	470P
C2014	100P	470P
C2111	100P	470P
C2112	100P	470P

*MARKED PARTS

Ref.No \ Model	JA,UZ	AG,AD
C3049	Not Used	470P
C3050	Not Used	470P
C3051	Not Used	0.022
C4002	Not Used	0.022
C4005	Not Used	470P
C4006	Not Used	470P
JW3001	Not Used	USE

IC3001

Q3003 Q3002 Q3001

Q5201 Q5203 Q5205 Q5207 Q5209 Q5211
Q5202 Q5204 Q5206 Q5208 Q5210 Q5212

Q3101 Q3103
Q3102 Q5037

IC8101

Q5031 Q5035 Q5033
Q5032 Q5036 Q5034
Q5071 Q5073 Q5075
Q5072 Q5074 Q5076

IC5001

Q5122 Q5123 Q5121

IC8102

IC5051

Q5101 Q5052
Q5102 Q5051

NOTE
1. All resistance values are in ohms.
K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P = 1 / 1,000,000

DOLBY P.C.Board

IC3001
HA12088ANT

DOLBY B/C NR

DOLBY B/C SWITCHING

Q3001 2SC1815

Q3003 DTC114Y

Q3002 DTC114Y

V STABILIZER (DOLBY +B)

PB/REC SWITCHING

Q3101 2SD1302

Q3102 2SD1302

Q3103 DTA124E

OUTPUT MUTE

REC OUT

KEY SW P.C.Board (1/2)

IC8101 BA6124

IC8102 BA6124

LEVEL METER-L

LEVEL METER-R

LEVEL METER DRIVER

TO MAIN PCB(2/3)

TO REV MODE SW PCB(3/3)

REC EQ

Q5031 2SD1302

Q5032 2SD1302

Q5035 2SD1302

Q5036 2SD1302

Q5033 2SD1302

Q5034 2SD1302

Q5037 DTA124E

IC5001 M5236P

REC AMP

HX CIRCUIT

IC5051 μPC1297CA

ABSO DET

PEAK DET

VCA

COMP

VOLTAGE REGULATOR

THERMAL PROTECTION

PRE DRIVER

Q5201 2SD1302

Q5203 2SD1302

Q5205 2SD1302

Q5207 2SD1302

Q5209 2SD1302

Q5211 2SD1302

Q5202 2SD1302

Q5204 2SD1302

Q5206 2SD1302

Q5208 2SD1302

Q5210 2SD1302

Q5212 2SD1302

METALX1
CrO2X1
NORX1
METALX2
CrO2X2
NORX2

Q5071 2SC1815

Q5073 2SC1815

Q5075 2SC1815

Q5072 2SC1815

Q5074 2SC1815

Q5076 2SC1815

NX2 CX2 MX2 NX1 CX1 MX1

REC EQ

REC BIAS SWITCHING

METAL CrO2 NOR

BIAS CIRCUIT

Q5121 2SC2120

Q5123 2SC1815

Q5122 DTC124X

Q5101 2SC1318NC

Q5102 2SC1318NC

Q5052 2SC2120

Q5051 2SC1815

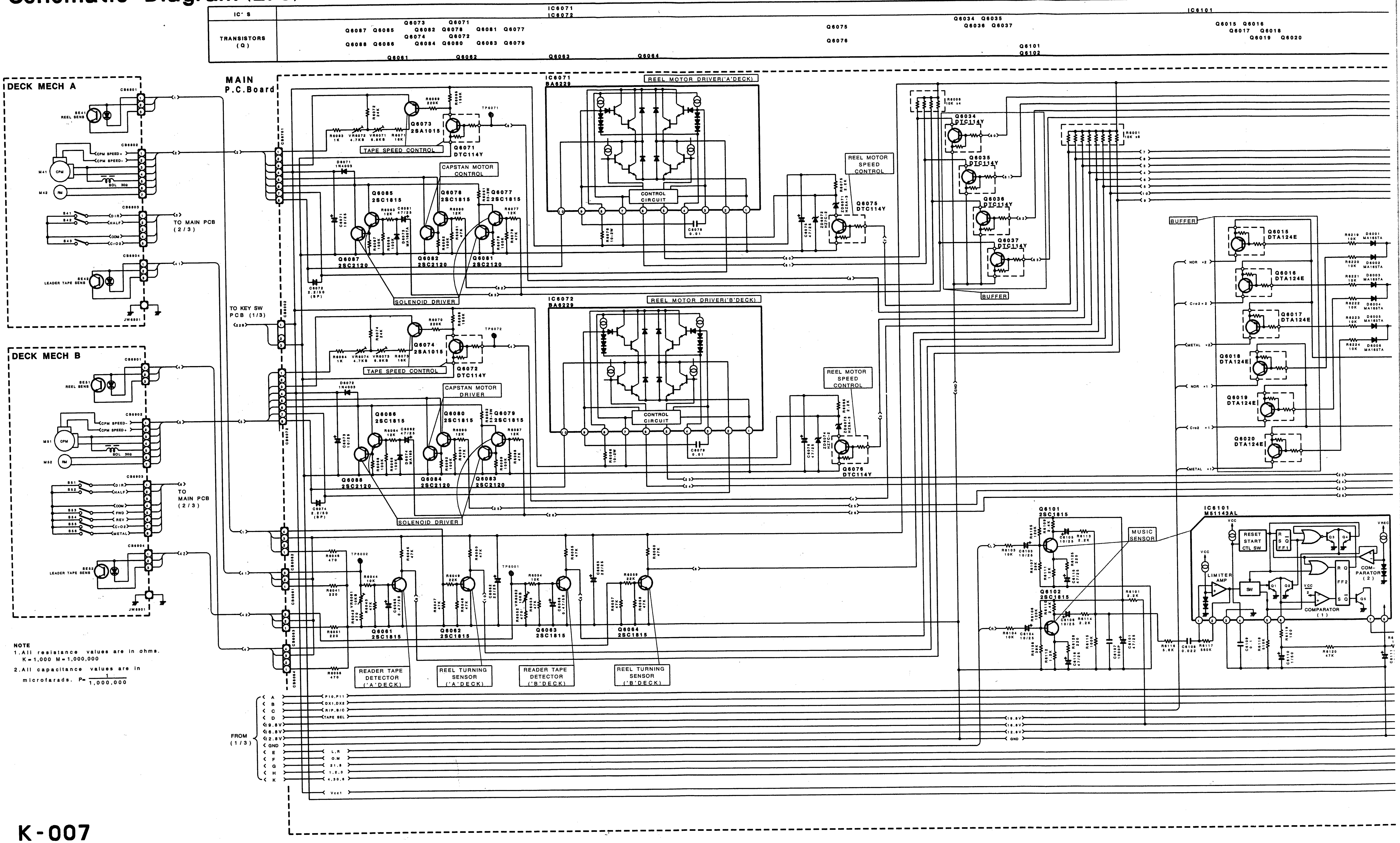
HX CIRCUIT

TO (2/3)

K-007

H I J K L M N O

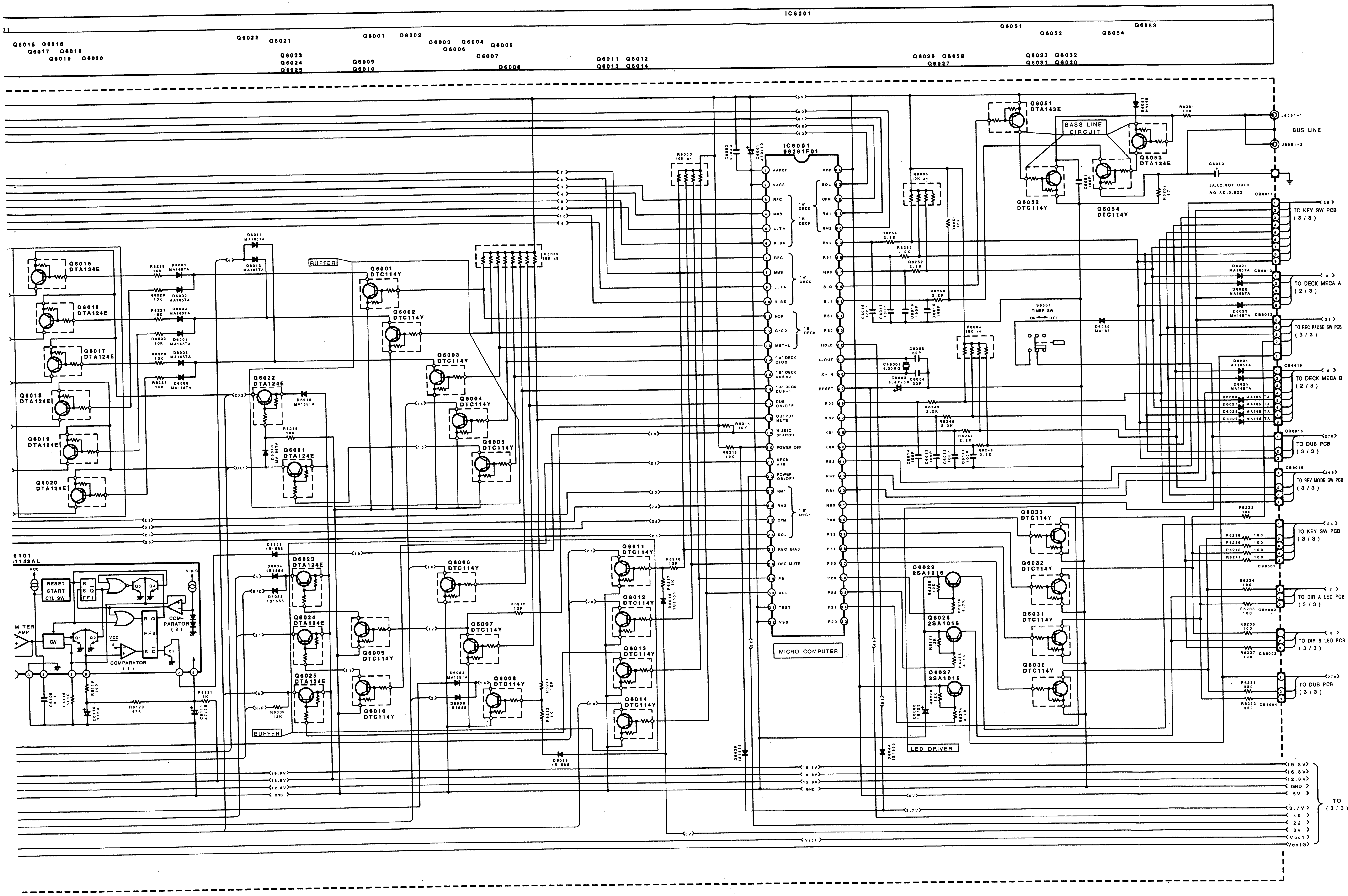
Schematic Diagram (2/3)



NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P= $\frac{1}{1,000,000}$

K-007

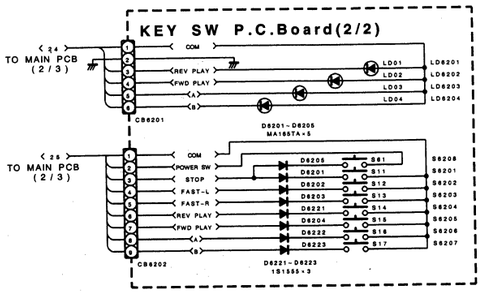
A B C D E F G H

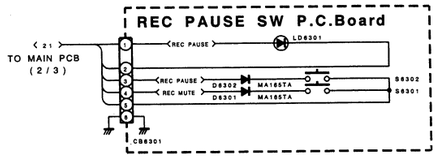

IC6001
96291F01
MICRO COMPUTER
BUFFER
LED DRIVER
BASS LINE CIRCUIT
BUS LINE
TO KEY SW PCB (3/3)
TO DECK MECA A (2/3)
TO REC PAUSE SW PCB (3/3)
TO DECK MECA B (2/3)
TO DUB PCB (3/3)
TO REV MODE SW PCB (3/3)
TO DIR A LED PCB (3/3)
TO DIR B LED PCB (3/3)
TO (3/3)
JA,UZ:NOT USED
AG,AD:0.022
TIMER SW
RESET START CTL SW
COMPARATOR (1)
COM-PARATOR (2)
Q6015 DTA124E
Q6016 DTA124E
Q6017 DTA124E
Q6018 DTA124E
Q6019 DTA124E
Q6020 DTA124E
Q6001 DTC114Y
Q6002 DTC114Y
Q6003 DTC114Y
Q6004 DTC114Y
Q6005 DTC114Y
Q6006 DTC114Y
Q6007 DTC114Y
Q6008 DTC114Y
Q6009 DTC114Y
Q6010 DTC114Y
Q6011 DTC114Y
Q6012 DTC114Y
Q6013 DTC114Y
Q6014 DTC114Y
Q6021 DTA124E
Q6022 DTA124E
Q6023 DTA124E
Q6024 DTA124E
Q6025 DTA124E
Q6027 2SA1015
Q6028 2SA1015
Q6029 2SA1015
Q6030 DTC114Y
Q6031 DTC114Y
Q6032 DTC114Y
Q6033 DTC114Y
Q6051 DTA143E
Q6052 DTC114Y
Q6053 DTA124E
Q6054 DTC114Y

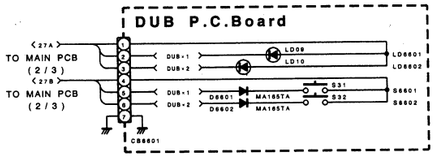
H I J K L M N O P

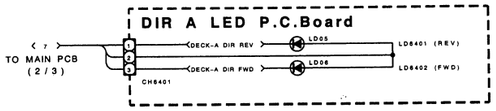
Schematic Diagram (3/3)

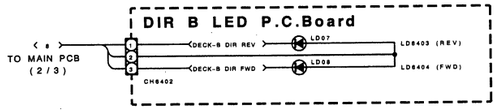
ICcS	IC1001
TRANSISTORS (Q)	Q1034 Q6026 Q1002 Q1009 Q1011 Q1012 Q1001 Q1005 Q1033 Q1032 Q1031 Q1003 Q1004 Q1006 Q1007

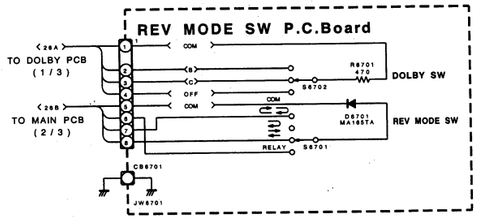












NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

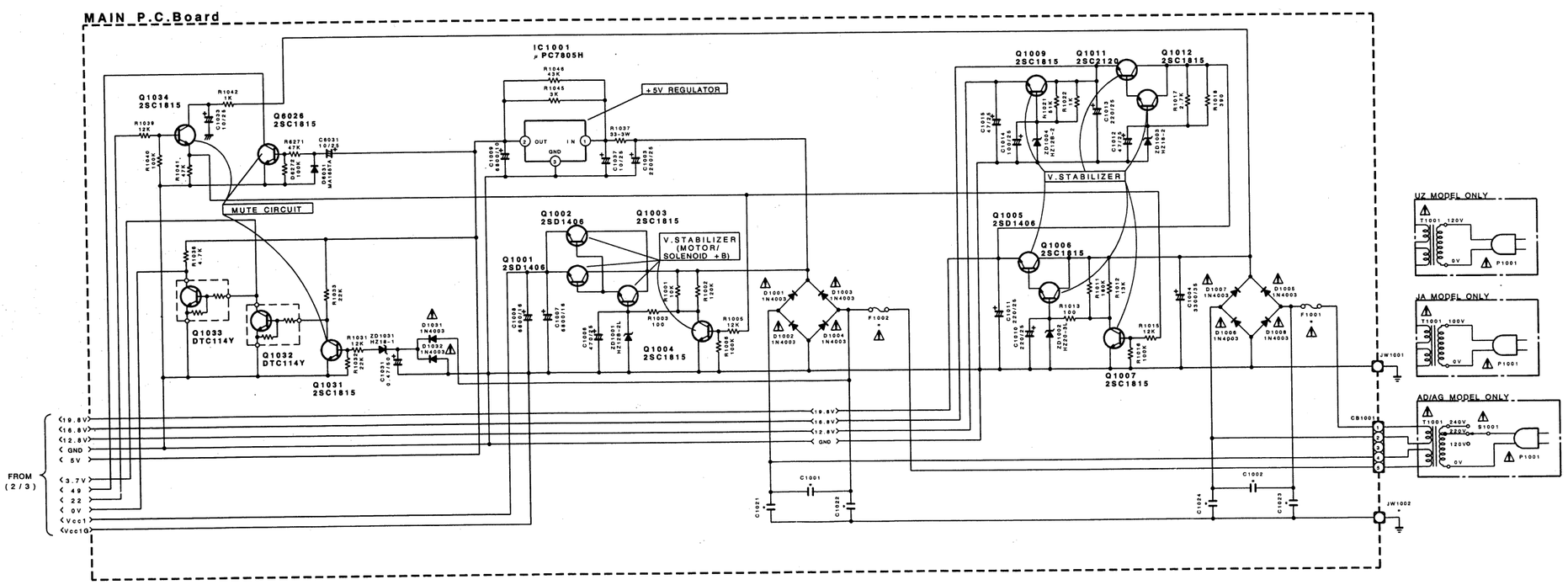
Voltage Measuring Conditions

1. Power Supply Voltage	:AC100V,50/60Hz(JA mdel only) :AC220V,50Hz(AD/AG mdel only) :AC120V,60Hz(UZ mdel only)
2. Measuring Meter	:Digital Multimeter
3. Measuring Point Reference	:Between Ground
4. Measuring Condition	:No Signal Input Deck in play conditions

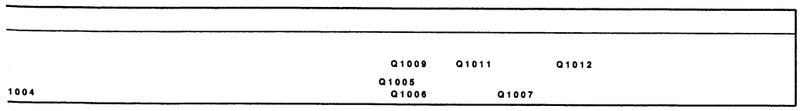
CAUTION;
The ⚠ mark, the symbol NO. in a box in the schematic diagram and the shaded area in the parts list designate comdonents which have special characterisics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list

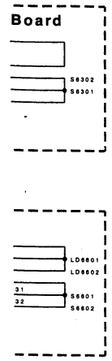
* MARKED PARTS

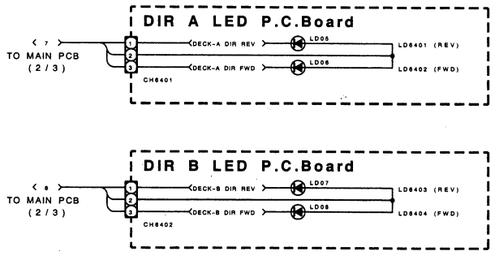
Ref.NO \ Model	JA,UZ	AG,AD
F1001	Jamper	T630mA
F1002	Jamper	T3.15A
C1001	Not Used	0.01/500
C1002	Not Used	0.01/500
C1021	Not Used	0.01/500
C1022	Not Used	0.01/500
C1023	Not Used	0.01/500
C1024	Not Used	0.01/500
JW1002	Not Used	USE



	B	C	E
Q1001	—	19V	11.
Q1002	—	19V	11.
Q1003	12.8V	19V	—
Q1004	—	—	0V
Q1005	—	26.7V	19.
Q1006	21V	26.7V	—
Q1007	—	—	0V
Q1009	12.8V	16.8V	12.
Q1011	—	19.8V	16.
Q1012	18V	19.8V	—
Q1031	—	0V	0V
Q1032	0V	3.7V	0V
Q1033	3.7V	0V	0V
Q1034	—	26.5V	POWER C POWER ON
Q2001	—	1.3V	—
Q2002	—	—	—
Q2003	1.3V	8V	0.
Q2004	—	—	—
Q2005	—	0V	—
Q2006	—	0V	—
Q2007	—	0V	—
Q2008	—	0V	—
Q2009	—	0V	—
Q2010	—	0V	—
Q2011	—	0V	—
Q2012	—	0V	—
Q2013	—	12.8V	12
Q2014	—	DUBx2/CrO2 METAL 12.8V	12
Q2015	—	CrO2,METAL 12.8V	12
Q2016	—	12.8V	12
Q2101	—	—	—
Q2102	—	—	—
Q2103	—	—	—
Q2104	—	—	—
Q2105	—	0V	—
Q2106	—	0V	—
Q2107	—	0V	—
Q2108	—	0V	—
Q2109	—	0V	—
Q2110	—	0V	—
Q2111	—	0V	—
Q2112	—	0V	—
Q2113	—	—	12
Q2114	—	CrO2,METAL 12.8V	12
Q2115	—	REC 12.8V	12
Q2116	—	—	0
Q2117	—	12V	12
Q2118	—	—	0
Q2121	—	—	—
Q2122	—	—	—
Q2123	—	0V	—
Q2124	—	0V	—
Q3001	13.9V	16.8V	13
Q3002	8.4V	—	0
Q3003	—	—	0
Q3101	—	0V	—
Q3102	—	0V	—
Q3103	—	—	—
Q4001	—	10.5V	5
Q4002	—	—	—
Q4003	—	0V	—
Q4004	—	0V	—
Q4005	—	—	16
Q4006	STOP 0V DUB 16V	—	0
Q4007	—	0V	—
Q4008	—	0V	—
Q4009	—	—	16
Q4010	DOLBY SW OFF 0.3V B 9V C 5.3V	—	0
Q4011	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	—	0
Q4012	0V (DUB 16V)	—	0
Q4013	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	—	0
Q5031	—	0V	—
Q5032	—	0V	—
Q5033	—	0V	—
Q5034	—	0V	—
Q5035	—	0V	—
Q5036	—	0V	—
Q5037	—	9.5V	9
Q5051	—	0V	—
Q5052	—	19.8V	REC
Q5071	—	—	—
Q5072	—	—	—
Q5073	—	—	—
Q5074	—	—	—
Q5075	—	—	—
Q5076	—	—	—
Q5101	—	13V	—
Q5102	—	13V	—
Q5121	—	19.8V	REC
Q5122	—	—	—
Q5123	—	—	—
Q5201	—	—	—
Q5202	—	—	—
Q5203	—	—	—
Q5204	—	—	—
Q5205	—	—	—
Q5206	—	—	—
Q5207	—	—	—
Q5208	—	—	—
Q5209	—	—	—
Q5210	—	—	—
Q5211	—	—	—
Q5212	—	—	—
Q6001	0V	—	—
Q6002	0V	—	—
Q6003	2.8V	—	—
Q6004	0V	—	—
Q6005	2.9V	—	—
Q6006	2.9V	—	—







NOTE

1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P= 1 / 1,000,000

Voltage Measuring Conditions

1. Power Supply Voltage :AC100V,50/60Hz(JA model only)
   :AC220V,50Hz(AD/AG model only)
   :AC120V,60Hz(UZ model only)
2. Measuring Meter :Digital Multimeter
3. Measuring Point Reference :Between Ground
4. Measuring Condition :No Signal Input
   Deck in play conditions

CAUTION;

The ⚠ mark, the symbol NO. in a box in the schematic diagram and the shaded area in the parts list designate comdonents which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list

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F1002	Jamper	T3.15A
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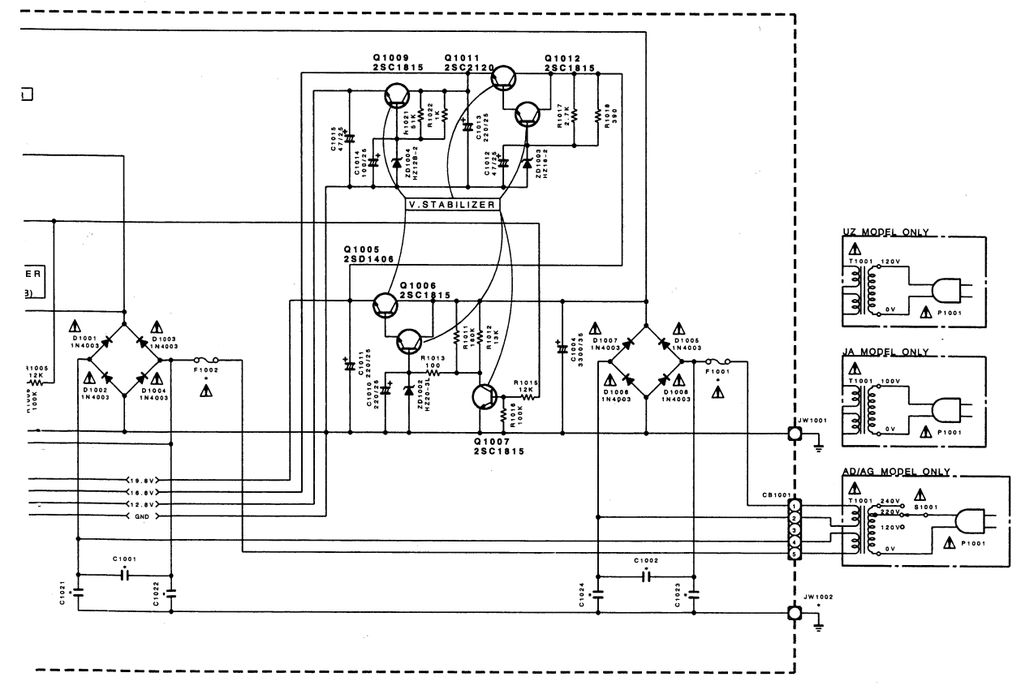
C1002	Not Used	0.01/500
C1021	Not Used	0.01/500
C1022	Not Used	0.01/500
C1023	Not Used	0.01/500
C1024	Not Used	0.01/500
JW1002	Not Used	USE



	B	C	E
Q1001	—	19V	11.7V
Q1002	—	19V	11.7V
Q1003	12.8V	19V	—
Q1004	—	—	0V
Q1005	—	26.7V	19.8V
Q1006	21V	26.7V	—
Q1007	—	—	0V
Q1009	12.8V	16.8V	12.8V
Q1011	—	19.8V	16.8V
Q1012	18V	19.8V	—
Q1031	—	0V	0V
Q1032	0V	3.7V	0V
Q1033	3.7V	0V	0V
Q1034	—	26.5V	POWER OFF 3.7V POWER ON 0V
Q2001	—	1.3V	—
Q2002	—	—	—
Q2003	1.3V	8V	0.7V
Q2004	—	—	—
Q2005	—	0V	—
Q2006	—	0V	—
Q2007	—	0V	—
Q2008	—	0V	—
Q2009	—	0V	—
Q2010	—	0V	—
Q2011	—	0V	—
Q2012	—	0V	—
Q2013	—	12.8V	12.8V
Q2014	—	DUB×2/CrO2 METAL 12.8V	12.8V
Q2015	—	CrO2,METAL 12.8V	12.8V
Q2016	—	12.8V	12.8V
Q2101	—	—	—
Q2102	—	—	—
Q2103	—	—	—
Q2104	—	—	—
Q2105	—	0V	—
Q2106	—	0V	—
Q2107	—	0V	—
Q2108	—	0V	—
Q2109	—	0V	—
Q2110	—	0V	—
Q2111	—	0V	—
Q2112	—	0V	—
Q2113	—	—	12.8V
Q2114	—	CrO2,METAL 12.8V	12.8V
Q2115	—	REC 12.8V	12.8V
Q2116	—	—	0V
Q2117	—	12V	12.8V
Q2118	—	—	0V
Q2121	—	—	—
Q2122	—	—	—
Q2123	—	0V	—
Q2124	—	0V	—
Q3001	13.9V	16.8V	13.2V
Q3002	8.4V	—	0V
Q3003	—	—	0V
Q3101	—	0V	—
Q3102	—	0V	—
Q3103	—	—	—
Q4001	—	10.5V	3V
Q4002	—	—	—
Q4003	—	0V	—
Q4004	—	0V	—
Q4005	—	—	16.8V
Q4006	STOP 0V DUB 16V	—	0V
Q4007	—	0V	—
Q4008	—	0V	—
Q4009	—	—	16.8V
Q4010	DOLBY SW OFF 0.3V B 9V C 5.3V	—	0V
Q4011	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	—	0V
Q4012	0V (DUB 16V)	—	0V
Q4013	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	—	0V
Q5031	—	0V	—
Q5032	—	0V	—
Q5033	—	0V	—
Q5034	—	0V	—
Q5035	—	0V	—
Q5036	—	0V	—
Q5037	—	9.5V	9.5V
Q5051	—	0V	0V
Q5052	—	19.8V	REC 18.9V
Q5071	—	—	0V
Q5072	—	—	0V
Q5073	—	—	0V
Q5074	—	—	0V
Q5075	—	—	0V
Q5076	—	—	0V
Q5101	—	13V	—
Q5102	—	13V	—
Q5121	—	19.8V	REC 13V
Q5122	—	—	0V
Q5123	—	—	0V
Q5201	—	—	—
Q5202	—	—	—
Q5203	—	—	—
Q5204	—	—	—
Q5205	—	—	—
Q5206	—	—	—
Q5207	—	—	—
Q5208	—	—	—
Q5209	—	—	—
Q5210	—	—	—
Q5211	—	—	—
Q5212	—	—	—
Q6001	0V	—	0V
Q6002	0V	—	0V
Q6003	2.8V	—	0V
Q6004	0V	—	0V
Q6005	2.9V	—	0V
Q6006	2.9V	—	0V

	B	C	E
Q6007	2.9V	—	0V
Q6008	—	—	0V
Q6009	—	—	0V
Q6010	0V	—	0V
Q6011	—	—	0V
Q6012	2.9V	—	0V
Q6013	3V	—	0V
Q6014	2.9V	—	0V
Q6015	—	16.5V	0V
Q6016	—	0V	0V
Q6017	—	0V	0V
Q6018	—	0V	16.8V
Q6019	—	0V	16.8V
Q6020	—	0V	16.8V
Q6021	—	16.8V	16.8V
Q6022	—	0V	—
Q6023	—	—	16.8V
Q6024	—	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	16.8V
Q6025	—	—	16.8V
Q6026	—	POWER OFF 4.8V POWER ON 0V	0V
Q6027	—	—	5V
Q6028	—	—	5V
Q6029	—	—	5V
Q6030	1.2V	—	0V
Q6031	0V	—	0V
Q6032	0V	—	0V
Q6033	2.4V	—	0V
Q6034	3.75V	—	0V
Q6035	3.9V	—	0V
Q6036	3.7V	0V	0V
Q6037	3.75V	0V	0V
Q6051	5V	—	5V
Q6052	—	—	0V
Q6053	—	—	—
Q6054	—	—	—
Q6061	—	5V	0V
Q6062	—	5V	0V
Q6063	—	5V	0V
Q6064	—	5V	0V
Q6071	2.8V	—	0V
Q6072	2.9V	—	0V
Q6073	—	—	11.72V
Q6074	—	—	11.72V
Q6075	0V	—	0V
Q6076	0V	—	0V
Q6077	—	—	—
Q6078	—	—	—
Q6079	—	—	—
Q6080	—	—	—
Q6081	—	—	0V
Q6082	—	—	0V
Q6083	—	—	0V
Q6084	—	—	0V
Q6085	—	—	—
Q6086	—	—	—
Q6087	—	—	0V
Q6088	—	—	0V
Q6101	—	—	1.2V
Q6102	—	—	—

IC6001

1	0V	33	—
2	0V	34	3.3V
3	0V	35	3.3V
4	2.9V	36	3.3V
5	5V	37	1.2V
6	5V	38	0V
7	0V	39	0V
8	2.9V	40	2.4V
9	5V	41	4.2V
10	5V	42	4V
11	0V	43	4V
12	0V	44	3.9V
13	2.8V	45	5V
14	0V	46	5V
15	2.9V	47	4.2V
16	2.9V	48	5V
17	2.9V	49	4.9V
18	3.7V	50	2.3V
19	5V	51	2.5V
20	4.2V	52	0V
21	0V	53	0V
22	0V	54	0V
23	0V	55	5V
24	0V	56	5V
25	0V	57	4.2V
26	0V	58	4.2V
27	3.7V	59	4.2V
28	2.9V	60	3.75V
29	3V	61	3.9V
30	2.9V	62	3.7V
31	0V	63	3.75V
32	0V	64	5V

IC3001

1	—	22	—
2	0V	23	—
3	—	24	—
4	—	25	—
5	—	26	—
6	—	27	—
7	—	28	—
8	—	29	—
9	—	30	—
10	—	31	—
11	—	32	—
12	—	33	—
13	—	34	—
14	—	35	—
15	—	36	—
16	—	37	—
17	—	38	—
18	—	39	—
19	—	40	—
20	—	41	—
21	—	42	13.2V

IC5001

1	8.5V
2	8.2V
3	8.2V
4	0V
5	—
6	—
7	—
8	16.8V

IC6101

1	—
2	—
3	0V
4	—
5	—
6	—
7	—
8	11.8V

IC1001

1	15.7V
2	5V
3	0V

IC5051

1	4.4V
2	2V
3	4.4V
4	0.7V
5	0.15V
6	16.8V
7	0V
8	0V
9	0V
10	—
11	—
12	—
13	—
14	—
15	—
16	—
17	—
18	19.8V

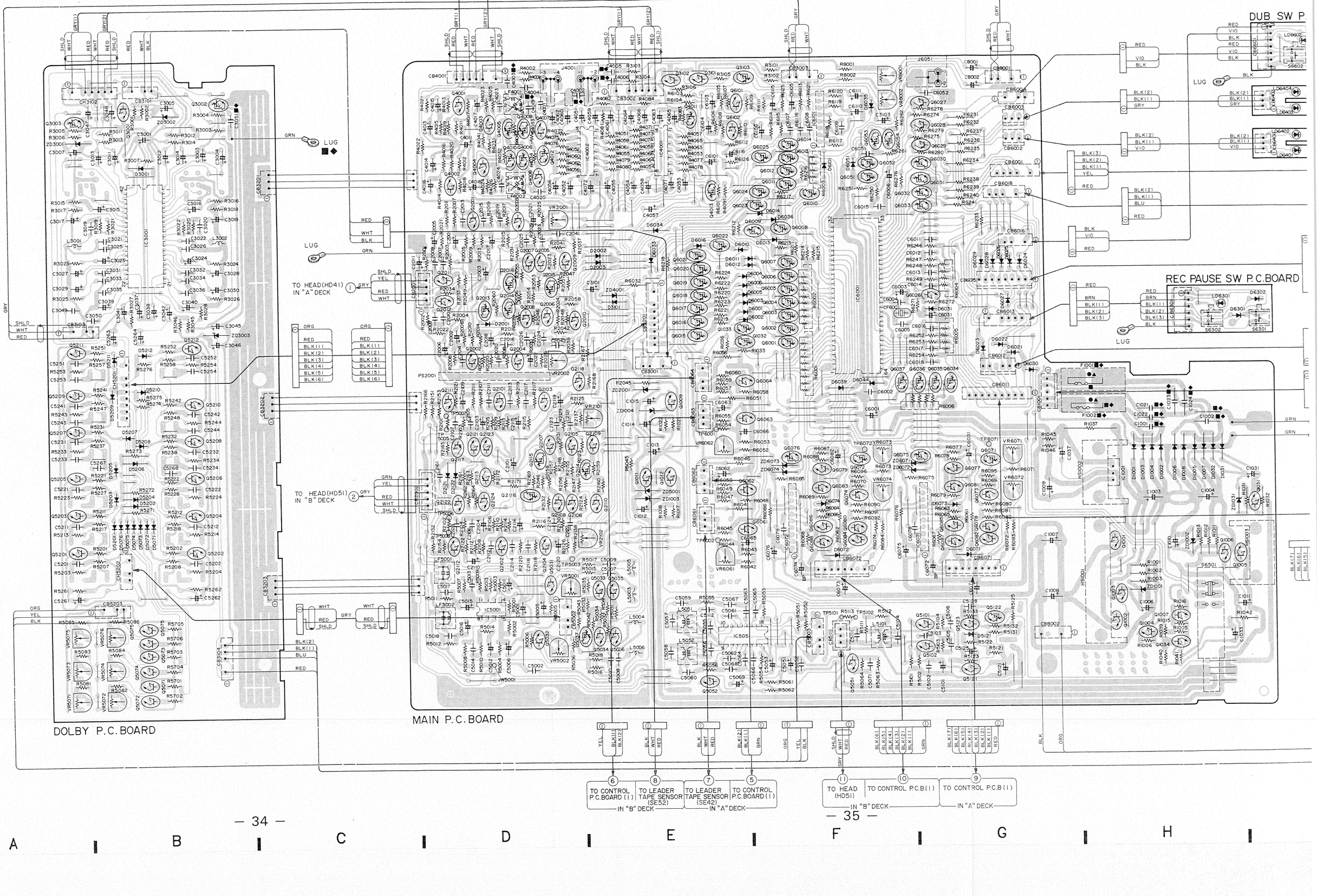
	IC4001	IC4002
1	—	—
2	—	—
3	—	—
4	—	—
5	—	—
6	—	—
7	0V	0V
8	—	—
9	—	—
10	—	—
11	—	—
12	—	—
13	—	—
14	16.8V	16.8V

	IC6071	IC6072
1	0V	0V
2	—	—
3	—	—
4	7.3V	7.3V
5	—	0V
6	—	0V
7	11.7V	11.7V
8	-11.7V	-11.7V
9	—	—
10	—	—

	IC8101	IC8102
1	—	—
2	—	—
3	—	—
4	—	—
5	0V	0V
6	—	—
7	—	—
8	—	—
9	11.7V	11.7V

K-007

Parts Layout on P. C. Boards and Wiring Diagram (1/2)



BLU ..... Blue
GRN ..... Green
BLK ..... Black
GRY ..... Gray
WHT ..... White
RED ..... Red
BRN ..... Brown
ORG ..... Orange
YEL ..... Yellow
VIO ..... Violet
PNK ..... Pink
GRN/WHT ..... Green/White
GRY/WHT ..... Gray/White
GRY/YEL ..... Gray/Yellow
GRN/YEL ..... Green/Yellow
SHLD ..... Shield

DUB SW P.C.BOARD

DIR LED P.C.BOARD (B)

DIR LED P.C.BOARD (A)

REC VOL P.C.BOARD

REC PAUSE SW P.C.BOARD

REV MODE SW P.C.BOARD

KEY SW P.C.BOARD

TO CONTROL P.C.B (1) IN "A" DECK

TO CONTROL P.C.B (1) IN "B" DECK

TO POWER TRANS (T1001)

TO CONTROL P.C.BOARD (1) IN "B" DECK

TO LEADER TAPE SENSOR (SE52) IN "B" DECK

TO LEADER TAPE SENSOR (SE42) IN "A" DECK

TO CONTROL P.C.BOARD (1) IN "A" DECK

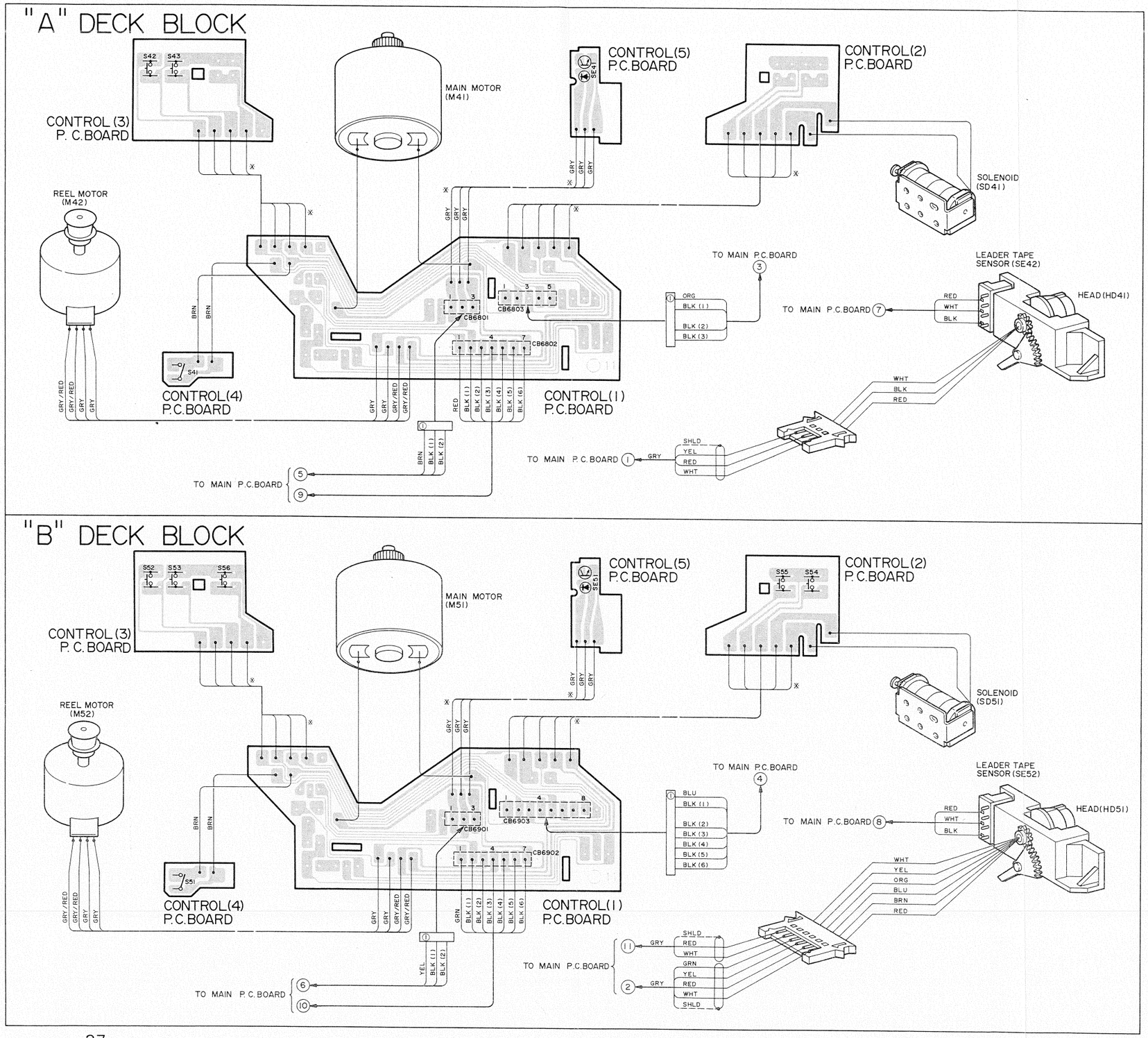
TO HEAD (HD51) IN "B" DECK

TO CONTROL P.C.B (1) IN "B" DECK

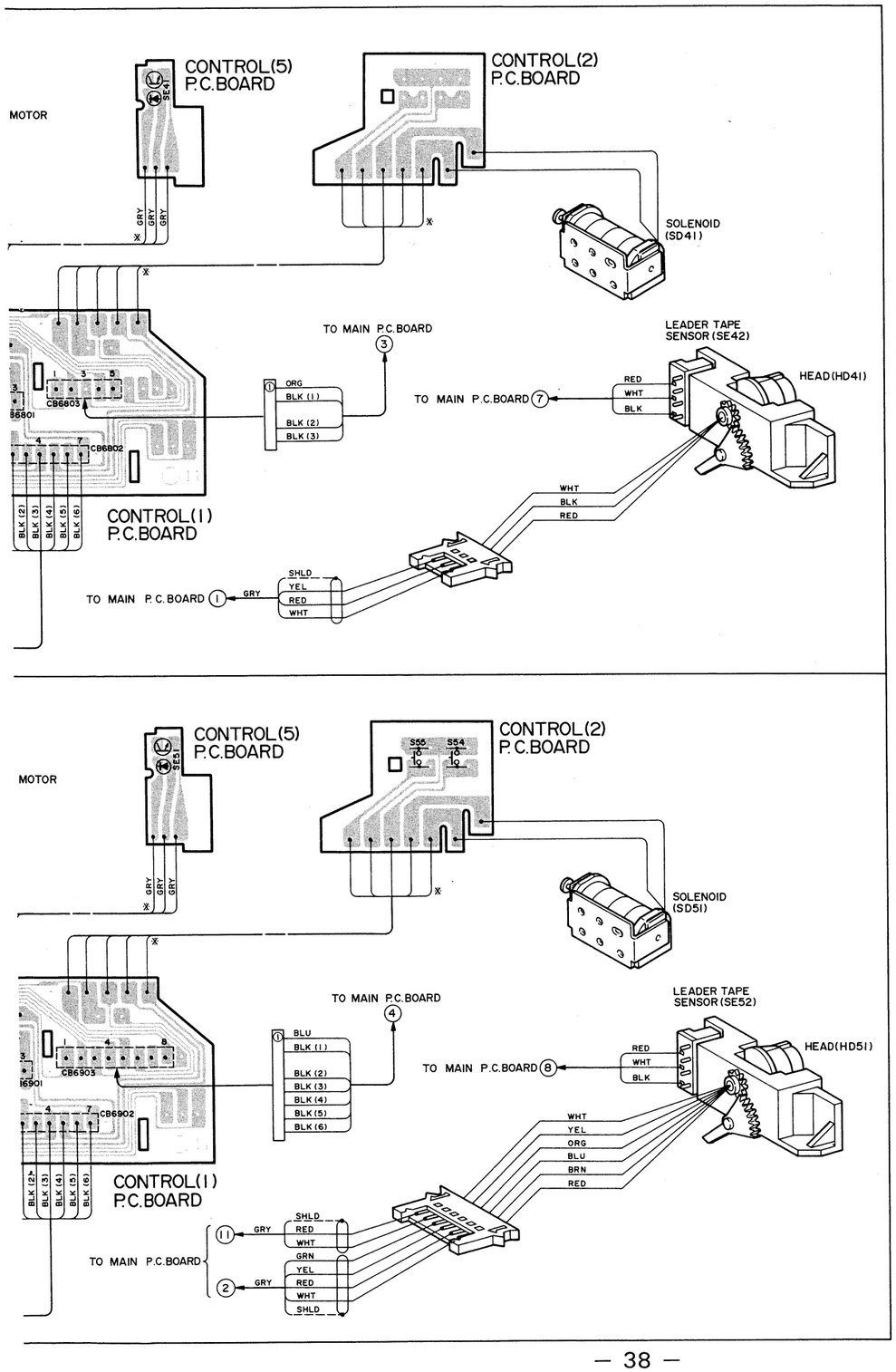
TO CONTROL P.C.B (1) IN "A" DECK

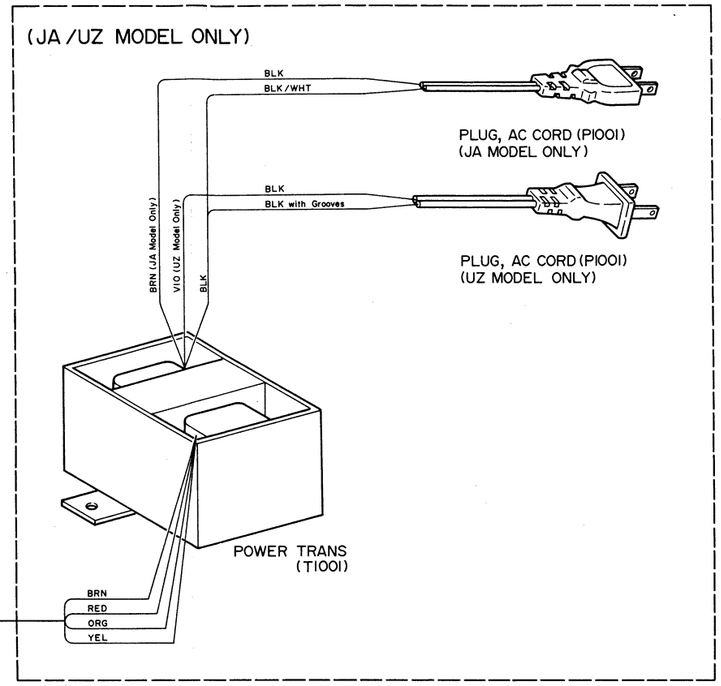
NOTE:
● : For Japanese model only (JA)
▲ : For American model only (UZ)
■ : For England model only (AG)
◆ : For WEST Germany model only (AD)
Others : Common

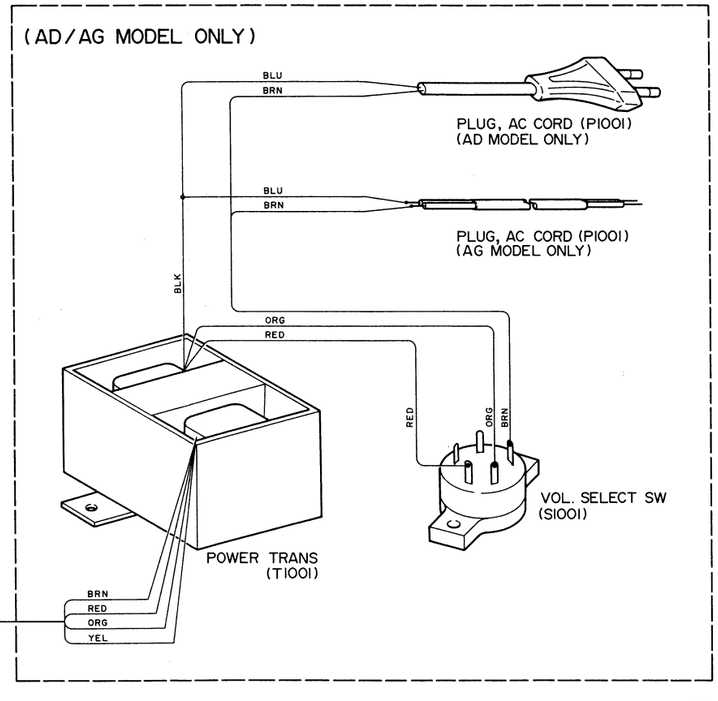
Parts Layout on P. C. Boards and Wiring Diagram (2/2)



2)







BLU	Blue
GRN	Green
BLK	Black
GRY	Gray
WHT	White
RED	Red
BRN	Brown
ORG	Orange
YEL	Yellow
VIO	Violet
PNK	Pink
GRN/WHT	Green/White
GRY/WHT	Gray/White
GRY/YEL	Gray/Yellow
GRN/YEL	Green/Yellow
SHLD	Shield

Electrical Parts List

Resistor: Carbon resistors under 1/8 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor: μF-microfarads, pF-picofarads

Abbreviations

CAP.-Capacitor　　CER.-Ceramic
ELY.-Electrolytic　　LED.-Light Emitting Diode
MIC.-Mica　　MO.-Metal Oxide Film
MYL.-Mylar　　PP.-Polypropylene
SOL.-Solid　　TAN.-Tantalum
ZEN.-Zener

Symbol No.	Part No.	Description		
		Main P.C. Board		
IC's				
IC4001	51T47739F01	TC4066BP		
IC4002	51T47739F01	TC4066BP		
IC5001	51T80136F01	M5238P		
IC5051	51T72929F01	μPC1297CA		
IC6001	51T96291F01	96291F01		
IC6071	51T70536F01	BA6229		
IC6072	51T70536F01	BA6229		
IC6101	51T67915F01	M51143AL		
Transistors				
Q1003	48T81101F01	2SC1815		
Q1004	48T81101F02	2SC1815		
Q1006	48T81101F01	2SC1815		
Q1007	48T81101F02	2SC1815		
Q1009	48T81101F01	2SC1815		
Q1011	48T43015U01	2SC2120		
Q1012	48T81101F01	2SC1815		
Q1031	48T81101F02	2SC1815		
Q1032	48T81715F12	DTC114Y		
Q1033	48T81715F12	DTC114Y		
Q1034	48T81101F01	2SC1815		
Q2001	48T95079F01	2SC1843		
Q2002	48T95079F01	2SC1843		
Q2003	48T95079F01	2SC1843		
Q2004	48T95079F01	2SC1843		
Q2005	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2006	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2007	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2008	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2009	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2010	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2011	48T81101F01	2SC1815		
Q2012	48T81101F01	2SC1815		
Q2013	48T81715F03	DTA124E		
Q2014	48T81715F03	DTA124E		
Q2015	48T81715F03	DTA124E		
Q2016	48T81715F03	DTA124E		
Q2101	48T95079F01	2SC1843		
Q2102	48T95079F01	2SC1843		
Q2103	48T95079F01	2SC1843		
Q2104	48T95079F01	2SC1843		
Q2105	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2106	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2107	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2108	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2109	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2110	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2111	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2112	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q2113	48T81102F01	2SA1015		
Q2114	48T81715F03	DTA124E		
Q2115	48T81715F03	DTA124E		
Q2116	48T81715F20	DTC124X		
Q2117	48T42941U01	2SA921		
Q2118	48T81101F01	2SC1815		
Q2121	48S43394P01	2SC1890		
Q2122	48S43394P01	2SC1890		
Q2123	48S43394P01	2SC1890		
Q2124	48S43394P01	2SC1890		
Q3101	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		

Symbol No.	Part No.	Description		
Q3102	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q3103	48T81715F03	DTA124E		
Q4001	48T95079F01	2SC1843		
Q4002	48T95079F01	2SC1843		
Q4003	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q4004	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q4005	48T81715F03	DTA124E		
Q4006	48T81715F20	DTC124X		
Q4007	48T81101F01	2SC1815		
Q4008	48T81101F01	2SC1815		
Q4009	48T81715F03	DTA124E		
Q4010	48T81715F20	DTC124X		
Q4011	48T81715F20	DTC124X		
Q4012	48T81715F20	DTC124X		
Q4013	48T81715F20	DTC124X		
Q5031	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5032	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5033	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5034	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5035	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5036	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5037	48T81715F03	DTA124E		
Q5051	48T81101F01	2SC1815		
Q5052	48T43015U01	2SC2120		
Q5101	48S40832F03	2SC1318NC		
Q5102	48S40832F03	2SC1318NC		
Q5121	48T43015U01	2SC2120		
Q5122	48T81715F20	DTC124X		
Q5123	48T81101F01	2SC1815		
Q6001	48T81715F12	DTC114Y		
Q6002	48T81715F12	DTC114Y		
Q6003	48T81715F12	DTC114Y		
Q6004	48T81715F12	DTC114Y		
Q6005	48T81715F12	DTC114Y		
Q6006	48T81715F12	DTC114Y		
Q6007	48T81715F12	DTC114Y		
Q6008	48T81715F12	DTC114Y		

Symbol No.	Part No.	Description		
Q6009	48T81715F12	DTC114Y		
Q6010	48T81715F12	DTC114Y		
Q6011	48T81715F12	DTC114Y		
Q6012	48T81715F12	DTC114Y		
Q6013	48T81715F12	DTC114Y		
Q6014	48T81715F12	DTC114Y		
Q6015	48T81715F03	DTA124E		
Q6016	48T81715F03	DTA124E		
Q6017	48T81715F03	DTA124E		
Q6018	48T81715F03	DTA124E		
Q6019	48T81715F03	DTA124E		
Q6020	48T81715F03	DTA124E		
Q6021	48T81715F03	DTA124E		
Q6022	48T81715F03	DTA124E		
Q6023	48T81715F03	DTA124E		
Q6024	48T81715F03	DTA124E		
Q6025	48T81715F03	DTA124E		
Q6026	48T81101F02	2SC1815		
Q6027	48T81102F01	2SA1015		
Q6028	48T81102F01	2SA1015		
Q6029	48T81102F01	2SA1015		
Q6030	48T81715F12	DTC114Y		
Q6031	48T81715F12	DTC114Y		
Q6032	48T81715F12	DTC114Y		
Q6033	48T81715F12	DTC114Y		
Q6034	48T81715F12	DTC114Y		
Q6035	48T81715F12	DTC114Y		
Q6036	48T81715F12	DTC114Y		
Q6037	48T81715F12	DTC114Y		
Q6051	48T81715F07	DTA143E		
Q6052	48T81715F12	DTC114Y		
Q6053	48T81715F03	DTA124E		
Q6054	48T81715F12	DTC114Y		
Q6061	48T81101F01	2SC1815		
Q6062	48T81101F01	2SC1815		
Q6063	48T81101F01	2SC1815		
Q6064	48T81101F01	2SC1815		
Q6071	48T81715F12	DTC114Y		
Q6072	48T81715F12	DTC114Y		
Q6073	48T81102F01	2SA1015		
Q6074	48T81102F01	2SA1015		
Q6075	48T81715F12	DTC114Y		
Q6076	48T81715F12	DTC114Y		
Q6077	48T81101F01	2SC1815		
Q6078	48T81101F01	2SC1815		

Symbol No.	Part No.	Description		
Q6079	48T81101F01	2SC1815		
Q6080	48T81101F01	2SC1815		
Q6081	48T43015U01	2SC2120		
Q6082	48T43015U01	2SC2120		
Q6083	48T43015U01	2SC2120		
Q6084	48T43015U01	2SC2120		
Q6085	48T81101F01	2SC1815		
Q6086	48T81101F01	2SC1815		
Q6087	48T43015U01	2SC2120		
Q6088	48T43015U01	2SC2120		
Q6101	48T81101F01	2SC1815		
Q6102	48T81101F01	2SC1815		
Diodes				
D1001	48S40477U01	1N4003		
D1002	48S40477U01	1N4003		
D1003	48S40477U01	1N4003		
D1004	48S40477U01	1N4003		
D1005	48S40477U01	1N4003		
D1006	48S40477U01	1N4003		
D1007	48S40477U01	1N4003		
D1008	48S40477U01	1N4003		
D1031	48S40477U01	1N4003		
D1032	48S40477U01	1N4003		
D2001	48T44813F01	MA165TA		
D2002	48T43189F01	1S1555		
D2003	48T43189F01	1S1555		
D2121	48T73079F02	1SS82		
D2122	48T73079F02	1SS82		
D3101	48T43189F01	1S1555		
D5121	48T44813F01	MA165TA		
D6001	48T44813F01	MA165TA		
D6002	48T44813F01	MA165TA		
D6003	48T44813F01	MA165TA		
D6004	48T44813F01	MA165TA		
D6005	48T44813F01	MA165TA		
D6006	48T44813F01	MA165TA		
D6010	48T44813F01	MA165TA		
D6011	48T44813F01	MA165TA		
D6012	48T44813F01	MA165TA		
D6013	48T43189F01	1S1555		
D6014	48T43189F01	1S1555		
D6016	48T44813F01	MA165TA		
D6021	48T44813F01	MA165TA		

Symbol No.	Part No.	Description		
D6022	48T44813F01	MA165TA		
D6023	48T44813F01	MA165TA		
D6024	48T44813F01	MA165TA		
D6025	48T44813F01	MA165TA		
D6026	48T44813F01	MA165TA		
D6027	48T44813F01	MA165TA		
D6028	48T44813F01	MA165TA		
D6029	48T44813F01	MA165TA		
D6030	48T44813F01	MA165TA		
D6031	48T44813F01	MA165TA		
D6033	48T43189F01	1S1555		
D6034	48T43189F01	1S1555		
D6035	48T44813F01	MA165TA		
D6036	48T43189F01	1S1555		
D6039	48T43189F01	1S1555		
D6044	48T43189F01	1S1555		
D6051	48T44813F01	MA165TA		
D6071	48S40477U01	1N4003		
D6072	48S40477U01	1N4003		
D6073	48T44813F01	MA165TA		
D6074	48T44813F01	MA165TA		
D6101	48T43189F01	1S1555		
ZD1001	48T52741F41	ZEN. HZ12B-2L		
ZD1002	48T52741F57	ZEN. HZ20-3L		
ZD1003	48T52739F83	ZEN. HZ18-2		
ZD1004	48T52739F74	ZEN. HZ12B-2		
ZD1031	48T52739F82	ZEN. HZ18-1		
ZD2001	48T52739F73	ZEN. HZ12B-1		
ZD4001	48T52739F07	ZEN. HZ3A-1		
ZD5001	48T52739F59	ZEN. HZ9C-2		
ZD6071	48T52739F27	ZEN. HZ5A-3		
ZD6072	48T52739F50	ZEN. HZ7C-2		
ZD6073	48T52739F27	ZEN. HZ5A-3		
ZD6074	48T52739F50	ZEN. HZ7C-2		
Capacitors				
■ C1001	21T68834F01	CER.	0.01μF	
◆ C1001	21T68834F01	CER.	0.01μF	
■ C1002	21T68834F01	CER.	0.01μF	
◆ C1002	21T68834F01	CER.	0.01μF	
C1003	23T00134L47	ELY.	2200μF/25V	
C1004	23T00134L61	ELY.	3300μF/35V	
C1006	23T00134L45	ELY.	470μF/25V	
C1007	23T00135L32	ELY.	6800μF/16V	
C1008	23T00135L32	ELY.	6800μF/16V	
C1009	23T00134L25	ELY.	6800μF/10V	

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Symbol No.	Part No.	Description		
	C1010	23T00149L37	ELY.	220μF/25V
	C1011	23T00149L37	ELY.	220μF/25V
	C1012	23T00149L35	ELY.	47μF/25V
	C1013	23T00149L37	ELY.	220μF/25V
	C1014	23T00149L36	ELY.	100μF/25V
	C1015	23T00149L35	ELY.	47μF/25V
◆	C1021	21T68834F01	CER.	0.01μF
■	C1021	21T68834F01	CER.	0.01μF
◆	C1022	21T68834F01	CER.	0.01μF
■	C1022	21T68834F01	CER.	0.01μF
◆	C1023	21T68834F01	CER.	0.01μF
■	C1023	21T68834F01	CER.	0.01μF
◆	C1024	21T68834F01	CER.	0.01μF
■	C1024	21T68834F01	CER.	0.01μF
	C1031	23T00149L51	ELY.	0.47μF/50V
	C1033	23T00149L32	ELY.	10μF/25V
	C1037	23T00149L32	ELY.	10μF/25V
	C2001	23T00149L32	ELY.	10μF/25V
	C2002	23T00149L32	ELY.	10μF/25V
	C2003	23T00138L26	ELY.	4.7μF/25V
	C2005	23T42478F09	ELY.	4.7μF/25V
	C2006	23T42478F09	ELY.	4.7μF/25V
	C2007	08S40805F02	CER.	150pF
	C2008	08S40805F02	CER.	150pF
	C2009	08T57705F54	MYL.	820pF
	C2010	08T57705F54	MYL.	820pF
	C2011	23T74436F29	TAN.	3.3μF/16V
●	C2013	08S40805F01	CER.	100pF
▲	C2013	08S40805F01	CER.	100pF
■	C2013	08S40805F05	CER.	470pF
◆	C2013	08S40805F05	CER.	470pF
●	C2014	08S40805F01	CER.	100pF
▲	C2024	08S40805F01	CER.	100pF
■	C2014	08S40805F05	CER.	470pF
◆	C2014	08S40805F05	CER.	470pF
	C2015	08T61940F27	CER.	47pF
	C2016	08T61940F27	CER.	47pF
	C2017	23T00149L36	ELY.	100μF/25V
	C2018	23T00149L36	ELY.	100μF/25V
	C2019	08T57705F61	MYL.	3300pF
	C2020	08T57705F61	MYL.	3300pF
	C2021	23T00180L12	ELY.	22μF/25V
	C2022	23T00180L12	ELY.	22μF/25V
	C2023	08T57705F69	MYL.	0.015μF
	C2024	08T57705F69	MYL.	0.015μF

Symbol No.	Part No.	Description		
	C2025	08S65480F61	CER.	0.01μF
	C2026	08S65480F61	CER.	0.01μF
	C2041	08T57705F66	MYL.	8200pF
	C2042	08T57705F66	MYL.	8200pF
	C2101	23T00138L26	ELY.	4.7μF/25V
	C2103	23T00149L32	ELY.	10μF/25V
	C2104	23T00149L32	ELY.	10μF/25V
	C2105	08T57705F55	MYL.	1000pF
	C2106	08T57705F55	MYL.	1000pF
	C2107	08T52714F17	CER.	0.022μF
	C2108	08T52714F17	CER.	0.022μF
	C2109	23T42478F09	ELY.	4.7μF/25V
	C2110	23T42478F09	ELY.	4.7μF/25V
●	C2111	08S40805F01	CER.	100pF
▲	C2111	08S40805F01	CER.	100pF
■	C2111	08S40805F05	CER.	470pF
◆	C2111	08S40805F05	CER.	470pF
●	C2112	08S40805F01	CER.	100pF
▲	C2112	08S40805F01	CER.	100pF
■	C2112	08S40805F05	CER.	470pF
◆	C2112	08S40805F05	CER.	470pF
	C2113	08T61940F27	CER.	47pF
	C2114	08T61940F27	CER.	47pF
	C2115	23T00149L36	ELY.	100μF/25V
	C2116	23T00149L36	ELY.	100μF/25V
	C2117	08T57705F61	MYL.	3300pF
	C2118	08T57705F61	MYL.	3300pF
	C2119	23T00180L12	ELY.	22μF/25V
	C2120	23T00180L12	ELY.	22μF/25V
	C2121	08T42629F69	MYL.	0.015μF
	C2122	08T57705F69	MYL.	0.015μF
	C2123	08T57705F67	MYL.	0.01μF
	C2124	08T57705F67	MYL.	0.01μF
	C2161	08S40805F01	CER.	100pF
	C3101	23T00149L37	ELY.	220μF/25V
	C3103	23T00149L52	ELY.	1μF/50V
	C4001	08T52714F17	CER.	0.022μF
■	C4002	08S52714F17	CER.	0.022μF
◆	C4002	08S52714F17	CER.	0.022μF
■	C4003	08S40805F02	CER.	150pF
◆	C4003	08S40805F02	CER.	150pF
■	C4004	08S40805F02	CER.	150pF
◆	C4004	08S40805F02	CER.	150pF
■	C4005	08S40805F05	CER.	470pF
◆	C4005	08S40805F05	CER.	470pF

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	Symbol No.	Part No.	Description		
■	C4006	08S40805F05	CER.	470pF	
◆	C4006	08S40805F05	CER.	470pF	
	C4011	23T00138L26	ELY.	4.7μF/25V	
	C4013	23T00149L32	ELY.	10μF/25V	
	C4014	23T00149L32	ELY.	10μF/25V	
	C4015	23T00138L26	ELY.	4.7μF/25V	
	C4016	23T00138L26	ELY.	4.7μF/25V	
	C4017	23T00149L32	ELY.	10μF/25V	
	C4018	23T00149L32	ELY.	10μF/25V	
	C4019	08T57705F60	MYL.	2700pF	
	C4020	08T57705F60	MYL.	2700pF	
	C4023	08T57705F60	MYL.	2700pF	
	C4024	08T57705F60	MYL.	2700pF	
	C4051	23T00149L32	ELY.	10μF/25V	
	C4052	23T00149L32	ELY.	10μF/25V	
	C4053	23T00149L32	ELY.	10μF/25V	
	C4054	23T00149L32	ELY.	10μF/25V	
	C4055	23T00149L32	ELY.	10μF/25V	
	C4056	23T00149L32	ELY.	10μF/25V	
	C4057	23T00149L32	ELY.	10μF/25V	
	C4058	23T00149L32	ELY.	10μF/25V	
	C4059	23T00149L32	ELY.	10μF/25V	
	C4060	23T00149L32	ELY.	10μF/25V	
	C4061	23T00149L32	ELY.	10μF/25V	
	C4062	23T00149L32	ELY.	10μF/25V	
	C4063	23T00149L32	ELY.	10μF/25V	
	C4064	23T00149L32	ELY.	10μF/25V	
	C4065	23T00149L32	ELY.	10μF/25V	
	C4066	23T00149L32	ELY.	10μF/25V	
	C4071	23T00149L33	ELY.	22μF/25V	
	C4072	23T00149L33	ELY.	22μF/25V	
	C5001	23T00138L26	ELY.	4.7μF/25V	
	C5002	08T52714F17	CER.	0.022μF	
	C5005	23T00149L32	ELY.	10μF/25V	
	C5006	23T00149L32	ELY.	10μF/25V	
	C5007	08T57705F67	MYL.	0.01μF	
	C5008	08T57705F67	MYL.	0.01μF	
	C5009	08T57705F63	MYL.	4700pF	
	C5010	08T57705F63	MYL.	4700pF	
	C5011	23T00149L33	ELY.	22μF/25V	
	C5012	23T00149L33	ELY.	22μF/25V	
	C5013	08T57705F73	MYL.	0.033μF	
	C5014	08T57705F73	MYL.	0.033μF	
	C5015	23T00149L32	ELY.	10μF/25V	
	C5016	23T00149L32	ELY.	10μF/25V	

Symbol No.	Part No.	Description		
C5017	08T57705F51	MYL.	470pF	
C5018	08T57705F51	MYL.	470pF	
C5051	23T00149L32	ELY.	10μF/25V	
C5052	08T52714F17	CER.	0.022μF	
C5053	23T00149L32	ELY.	10μF/25V	
C5055	08T90316F25	TF.	0.047μF	
C5056	08T90316F25	TF.	0.047μF	
C5057	08S40805F05	CER.	470pF	
C5058	08S40805F05	CER.	470pF	
C5059	08S40805F04	CER.	330pF	
C5060	08S40805F04	CER.	330pF	
C5061	08T90316F29	TF.	0.1μF	
C5062	08T90316F29	TF.	0.1μF	
C5063	08T57705F71	MYL.	0.022μF	
C5064	08T57705F71	MYL.	0.022μF	
C5065	08T57705F67	MYL.	0.01μF	
C5066	08T57705F67	MYL.	0.01μF	
C5067	21S40655F31	CER.	560pF	
C5068	21S40655F31	CER.	560pF	
C5069	23T00149L32	ELY.	10μF/25V	
C5071	08T52714F17	CER.	0.022μF	
C5101	23T00138L46	ELY.	2.2μF/50V	
C5102	08T52714F17	CER.	0.022μF	
C5103	08T52448F33	PP.	6800pF	
C5104	08T52448F41	PP.	0.015μF	
C5105	08T52448F25	PP.	3300pF	
C5106	08T52448F25	PP.	3300pF	
C5111	08T52448F33	PP.	6800pF	
C5112	21S40655F11	CER.	10pF	
C5121	23T74436F41	TAN.	10μF/25V	
C5125	23T00149L33	ELY.	22μF/25V	
C5128	08T52714F17	CER.	0.022μF	
C6001	23T00149L16	ELY.	470μF/10V	
C6002	08T52714F17	CER.	0.022μF	
C6003	23T00149L51	ELY.	0.47μF/50V	
C6004	08T61940F22	CER.	30pF	
C6005	08T61940F22	CER.	30pF	
C6006	23T00149L32	ELY.	10μF/25V	
C6011	08S65480F37	CER.	100pF	
C6012	08S65480F37	CER.	100pF	
C6013	08S65480F37	CER.	100pF	
C6014	08S65480F37	CER.	100pF	
C6015	08S65480F37	CER.	100pF	
C6016	08S65480F37	CER.	100pF	
C6017	08S65480F37	CER.	100pF	

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Symbol No.	Part No.	Description
C6018	08S65480F37	CER. 100pF
C6031	23T00149L32	ELY. 10μF/25V
C6051	08S65480F37	CER. 100pF
■ C6052	08S52714F17	CER. 0.022μF
◆ C6052	08S52714F17	CER. 0.022μF
C6062	23T00149L33	ELY. 22μF/25V
C6063	23T00149L33	ELY. 22μF/25V
C6065	23T00149L51	ELY. 0.47μF/50V
C6066	23T00149L51	ELY. 0.47μF/50V
C6071	23T00149L32	ELY. 10μF/25V
C6072	23T00140L37	ELY. (BP) 2.2μF/50V
C6073	23T00149L32	ELY. 10μF/25V
C6074	23T00140L37	ELY. (BP) 2.2μF/50V
C6075	23T00149L35	ELY. 47μF/25V
C6076	23T00149L35	ELY. 47μF/25V
C6078	08T52714F13	CER. 0.01μF
C6079	08T52714F13	CER. 0.01μF
C6081	23T00149L35	ELY. 47μF/25V
C6082	23T00149L35	ELY. 47μF/25V
C6101	23T00149L35	ELY. 47μF/25V
C6103	23T00149L32	ELY. 10μF/25V
C6104	23T00149L32	ELY. 10μF/25V
C6105	23T00149L32	ELY. 10μF/25V
C6106	23T00149L32	ELY. 10μF/25V
C6107	08T57705F55	MYL. 1000pF
C6108	08T57705F71	MYL. 0.022μF
C6109	08T90316F29	TF. 0.1μF
C6110	23T00149L52	ELY. 1μF/50V
C6111	23T00149L35	ELY. 47μF/25V
C6115	23T00149L35	ELY. 47μF/25V
C6116	23T00149L35	ELY. 47μF/25V
C8001	23T00149L32	ELY. 10μF/25V
C8002	23T00149L32	ELY. 10μF/25V
Resistors		
R1037	06T92265F13	MF. 33ohm-3W
R6001	06T52333F05	Block 10Kohm x8
R6002	06T52333F05	Block 10Kohm x8
R6003	06T52333F02	Block 10Kohm x4
R6004	06T52333F02	Block 10Kohm x4
R6005	06T52333F02	Block 10Kohm x4
R6006	06T52333F02	Block 10Kohm x4
R6061	06T92265F13	MF. 33ohm-3W
R6062	06T92265F13	MF. 33ohm-3W
R6076	06T92264F01	MF. 10ohm-2W

Symbol No.	Part No.	Description
R6086	06T92264F01	MF. 10ohm-2W
VR2001	18T15356W15	Volume, RH0634C 22Kohm
VR2002	18T15356W15	Volume, RH0634C 22Kohm
VR2101	18T15356W15	Volume, RH0634C 22Kohm
VR2102	18T15356W15	Volume, RH0634C 22Kohm
VR5001	18T15356W17	Volume, RH0634C 47Kohm
VR5002	18T15356W17	Volume, RH0634C 47Kohm
VR6061	18T15356W13	Volume, RH0634C 10Kohm
VR6062	18T15356W13	Volume, RH0634C 10Kohm
VR6071	18T15355W12	Volume, RH064AC 6.8Kohm
VR6072	18T15355W11	Volume, RH064AC 4.7Kohm
VR6073	18T15355W12	Volume, RH064AC 6.8Kohm
VR6074	18T15355W11	Volume, RH064AC 4.7Kohm
VR8001	18T15356W17	Volume, RH0634C 47Kohm
VR8002	18T15356W17	Volume, RH0634C 47Kohm
Coils/Filter		
L5003	24T81850F08	Inductor 3.9mH
L5004	24T81850F08	Inductor 3.9mH
L5005	24T81850F01	Inductor 1mH
L5006	24T81850F01	Inductor 1mH
L5051	24T72930F01	Coil, HX
L5052	24T72930F01	Coil, HX
L5101	24T70526F02	Coil, OSC
LF4001	24T70527F03	Filter,MPX
LF4002	24T70527F03	Filter,MPX
LF5001	24T70528F01	Filter,Bias
LF5002	24T70528F01	Filter,Bias
Ceramic Filter		
CF6001	91T70534F01	4MHz
Jacks		
J4001	09T15454W01	Plate, Phono 4P (LINE IN/OUT)
J6051	09T15461W01	Min., 2P (BUS LINE)
Swith		
S6501	40T15334W01	Push (SPUN) (TIMER)

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Symbol No.	Part No.	Description		
		Dolby P.C. Board		
IC				
IC3001	51T73972F02	HA12088ANT		
Transistors				
Q3001	48T81101F01	2SC1815		
Q3002	48T81715F12	DTC114Y		
Q3003	48T81715F12	DTC114Y		
Q5071	48T81101F01	2SC1815		
Q5072	48T81101F01	2SC1815		
Q5073	48T81101F01	2SC1815		
Q5074	48T81101F01	2SC1815		
Q5075	48T81101F01	2SC1815		
Q5076	48T81101F01	2SC1815		
Q5201	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5202	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5203	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5204	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5205	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5206	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5207	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5208	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5209	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5210	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5211	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Q5212	48T57305F04	2SD1302		
or	48T90183F04	2SD1996		
Diodes				
D3001	48T15817W01	1SS108		
D5071	48T44813F01	MA165TA		
D5072	48T44813F01	MA165TA		
D5073	48T44813F01	MA165TA		
D5074	48T44813F01	MA165TA		

Symbol No.	Part No.	Description		
D5075	48T44813F01	MA165TA		
D5076	48T44813F01	MA165TA		
D5201	48T44813F01	MA165TA		
D5202	48T43189F01	1S1555		
D5203	48T44813F01	MA165TA		
D5204	48T43189F01	1S1555		
D5205	48T44813F01	MA165TA		
D5206	48T43189F01	1S1555		
D5207	48T44813F01	MA165TA		
D5208	48T44813F01	MA165TA		
D5209	48T44813F01	MA165TA		
D5210	48T44813F01	MA165TA		
D5211	48T44813F01	MA165TA		
D5212	48T44813F01	MA165TA		
ZD3001	48T52739F47	ZEN. HZ7B-2		
ZD3002	48T52740F09	ZEN. HZ12C-3		
ZD3003	48T52739F43	ZEN. HZ7A-1		
Coils				
L3001	24T81850F22	Inductor 36mH		
L3002	24T81850F22	Inductor 36mH		
Capacitors				
C3001	23T00181L21	ELY. 1000μF/16V		
C3003	23T00149L37	ELY. 220μF/25V		
C3004	23T00149L33	ELY. 22μF/25V		
C3005	23T00149L25	ELY. 100μF/16V		
C3007	23T00149L33	ELY. 22μF/25V		
C3011	23T42478F24	ELY. 1μF/50V		
C3012	23T42478F24	ELY. 1μF/50V		
C3013	23T42478F21	ELY. 0.33μF/50V		
C3014	23T42478F21	ELY. 0.33μF/50V		
C3015	23T00149L32	ELY. 10μF/25V		
C3016	23T00149L32	ELY. 10μF/25V		
C3017	23T00138L26	ELY. 4.7μF/25V		
C3018	23T00138L26	ELY. 4.7μF/25V		
C3019	08T57705F58	MYL. 1800pF		
C3020	08T57705F58	MYL. 1800pF		
C3021	08T57705F67	MYL. 0.01μF		
C3022	08T57705F67	MYL. 0.01μF		
C3023	23T00149L52	ELY. 1μF/50V		
C3024	23T00149L52	ELY. 1μF/50V		
C3025	08T57705F70	MYL. 0.018μF		

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Symbol No.	Part No.	Description		
C3026	08T57705F70	MYL. 0.018μF		
C3027	23T42478F23	ELY. 0.68μF/50V		
C3028	23T42478F23	ELY. 0.68μF/50V		
C3029	23T00149L53	ELY. 2.2μF/50V		
C3030	23T00149L53	ELY. 2.2μF/50V		
C3031	08T57705F70	MYL. 0.018μF		
C3032	08T57705F70	MYL. 0.018μF		
C3033	08T57705F67	MYL. 0.01μF		
C3034	08T57705F67	MYL. 0.01μF		
C3035	08T90316F28	TF. 0.082μF		
C3036	08T90316F28	TF. 0.082μF		
C3037	23T42478F23	ELY. 0.68μF/50V		
C3038	23T42478F23	ELY. 0.68μF/50V		
C3039	23T00149L53	ELY. 2.2μF/50V		
C3040	23T00149L53	ELY. 2.2μF/50V		
C3041	23T00138L26	ELY. 4.7μF/25V		
C3042	23T00138L26	ELY. 4.7μF/25V		
C3045	23T00149L32	ELY. 10μF/25V		
C3046	23T00149L32	ELY. 10μF/25V		
C3047	23T00138L11	ELY. 47μF/10V		
C3048	23T00138L11	ELY. 47μF/10V		
■ C3049	08S40805F05	CER. 470pF		
◆ C3049	08S40805F05	CER. 470pF		
■ C3050	08S40805F05	CER. 470pF		
◆ C3050	08S40805F05	CER. 470pF		
■ C3051	08T52714F17	CER. 0.022μF		
◆ C3051	08T52714F17	CER. 0.022μF		
C5201	08T57705F63	MYL. 4700pF		
C5202	08T57705F63	MYL. 4700pF		
C5211	08T57705F63	MYL. 4700pF		
C5212	08T57705F63	MYL. 4700pF		
C5221	08T57705F62	MYL. 3900pF		
C5222	08T57705F62	MYL. 3900pF		
C5231	08T57705F60	MYL. 2700pF		
C5232	08T57705F60	MYL. 2700pF		
C5233	08S40805F01	CER. 100pF		
C5234	08S40805F01	CER. 100pF		
C5241	08T57705F56	MYL. 1200pF		
C5242	08T57705F56	MYL. 1200pF		
C5243	21S40655F28	CER. 270pF		
C5244	21S40655F28	CER. 270pF		
C5251	08T57705F57	MYL. 1500pF		
C5252	08T57705F57	MYL. 1500pF		
C5253	08S40805F02	CER. 150pF		
C5254	08S40805F02	CER. 150pF		

Symbol No.	Part No.	Description		
C5261	23T00149L32	ELY. 10μF/25V		
C5262	23T00149L32	ELY. 10μF/25V		
C5263	23T00149L32	ELY. 10μF/25V		
C5264	23T00149L32	ELY. 10μF/25V		
C5267	08T57705F79	MYL. 0.1μF		
C5268	08T57705F79	MYL. 0.1μF		
Volume				
VR5071	18T15356W12	RH0634C 6.8K ohm		
VR5072	18T15356W12	RH0634C 6.8K ohm		
VR5073	18T15356W09	RH0634C 2.2K ohm		
VR5074	18T15356W09	RH0634C 2.2K ohm		
VR5075	18T15356W08	RH0634C 1.5K ohm		
VR5076	18T15356W08	RH0634C 1.5K ohm		
Key SW P.C. Board				
IC's				
IC8101	51T51749F01	BA6124		
IC8102	51T51749F01	BA6124		
Diodes				
D6201	48T44813F01	MA165TA		
D6202	48T44813F01	MA165TA		
D6203	48T44813F01	MA165TA		
D6204	48T44813F01	MA165TA		
D6205	48T44813F01	MA165TA		
D6221	48T43189F01	1S1555		
D6222	48T43189F01	1S1555		
D6223	48T43189F01	1S1555		
LED's				
LD6201	48T60488F01	SLR-54DU3(ORG)		
LD6202	48T60488F01	SLR-54DU3(ORG)		
LD6203	48T60488F01	SLR-54DU3(ORG)		
LD6204	48T60488F01	SLR-54DU3(ORG)		
LD8101	48T56898F02	SLJ-165VR3HL(RED)		
LD8102	48T56898F02	SLJ-165VR3HL(RED)		
Capasito				
C8111	23T00149L32	ELY. 10μF/25V		
C8113	23T00149L32	ELY. 10μF/25V		
C8114	23T00149L32	ELY. 10μF/25V		

Note : ● ; For Japanese Model Only(JA) ▲ ; For American Model Only(UZ)
◆ ; For West Germany Model Only(AD) ■ ; For England Model Only(AG) Others : Common

Symbol No.	Part No.	Description
Switches		
S6201	40T83324F15	Tact SKHHPM (□)
S6202	40T83324F15	Tact SKHHPM (◁◁)
S6203	40T83324F15	Tact SKHHPM (▷▷)
S6204	40T83324F15	Tact SKHHPM (◁)
S6205	40T83324F15	Tact SKHHPM (▷)
S6206	40T83324F15	Tact SKHHPM (A)
S6207	40T83324F15	Tact SKHHPM (B)
S6208	40T83324F15	Tact SKHHPM (POWER)
Dubbing SW P.C. Board		
Diodes/LED's		
D6601	48T44813F01	MA165TA
D6602	48T44813F01	MA165TA
LD6601	48T72160F01	LED,SLR-40VR3F(RED)
LD6602	48T72160F01	LED,SLR-40VR3F(RED)
Switches		
S6601	40T83324F15	Tact SKHHPM (DUBx1)
S6602	40T83324F15	Tact SKHHPM (DUBx2)
REC Pause SW P.C. Board		
Diodes/LED		
D6301	48T44813F01	MA165TA
D6302	48T44813F01	MA165TA
LD6301	48T72160F01	LED,SLR-40VR3F(RED)
Switches		
S6301	40T83324F15	Tact SKHHPM (REC MUTE)
S6302	40T83324F15	Tact SKHHPM (REC PAUSE)
REC Volume P.C. Board		
Volume		
VR4101	18T15339W01	Rot. RK097 50KMN (REC BALANCE)
VR4102	18T15338W01	Rot. RK097 50KB (REC LEVEL)

Symbol No.	Part No.	Description
REV Mode SW P.C. Board		
Diode		
D6701	48T44813F01	MA165TA
Switches		
S6701	40T15336W01	Rot. SRBM(2-4) (REVERSE MODE)
S6702	40T15337W01	Rot. SRBM(2-3) (DOLBY NR)
Miscellaneous		
■ F1001	65T42077U14	Fuse, Semko. 630mA
◆ F1001	65T42077U14	Fuse, Semko. 630mA
■ F1002	65T42077U19	Fuse, Semko. 20A
◆ F1002	65T42077U17	Fuse, Semko. 20A
IC1001	51T50834F02	IC, μPC7805H
LD6401	48T60485F01	LED, SLR-34MG3(GRN)
LD6402	48T60485F01	LED, SLR-34MG3(GRN)
LD6403	48T60485F01	LED, SLR-34MG3(GRN)
LD6404	48T60485F01	LED, SLR-34MG3(GRN)
● P1001	28T66771F02	Plug, AC Cord
▲ P1001	28T70972F01	Plug, AC Cord
■ P1001	28T44061F05	Plug, AC Cord
◆ P1001	28T43812P02	Plug, AC Cord
Q1001	48T58614F01	Transistor, 2SD1406
Q1002	48T58614F01	Transistor, 2SD1406
Q1005	48T58614F01	Transistor, 2SD1406
■ S1001	40T80258F03	SW., Voltage Select 2C
◆ S1001	40T80258F03	SW., Voltage Select 2C
● T1001	25T15333W01	Trans, Power
▲ T1001	25T16184W01	Trans, Power
■ T1001	25T16185W01	Trans, Power
◆ T1001	25T16185W01	Trans, Power

Note: ● ; For Japanese Model Only(JA) ▲ ; For American Model Only(UZ)
◆ ; For West Germany Model Only(AD) ■ ; For England Model Only(AG) Others : Common

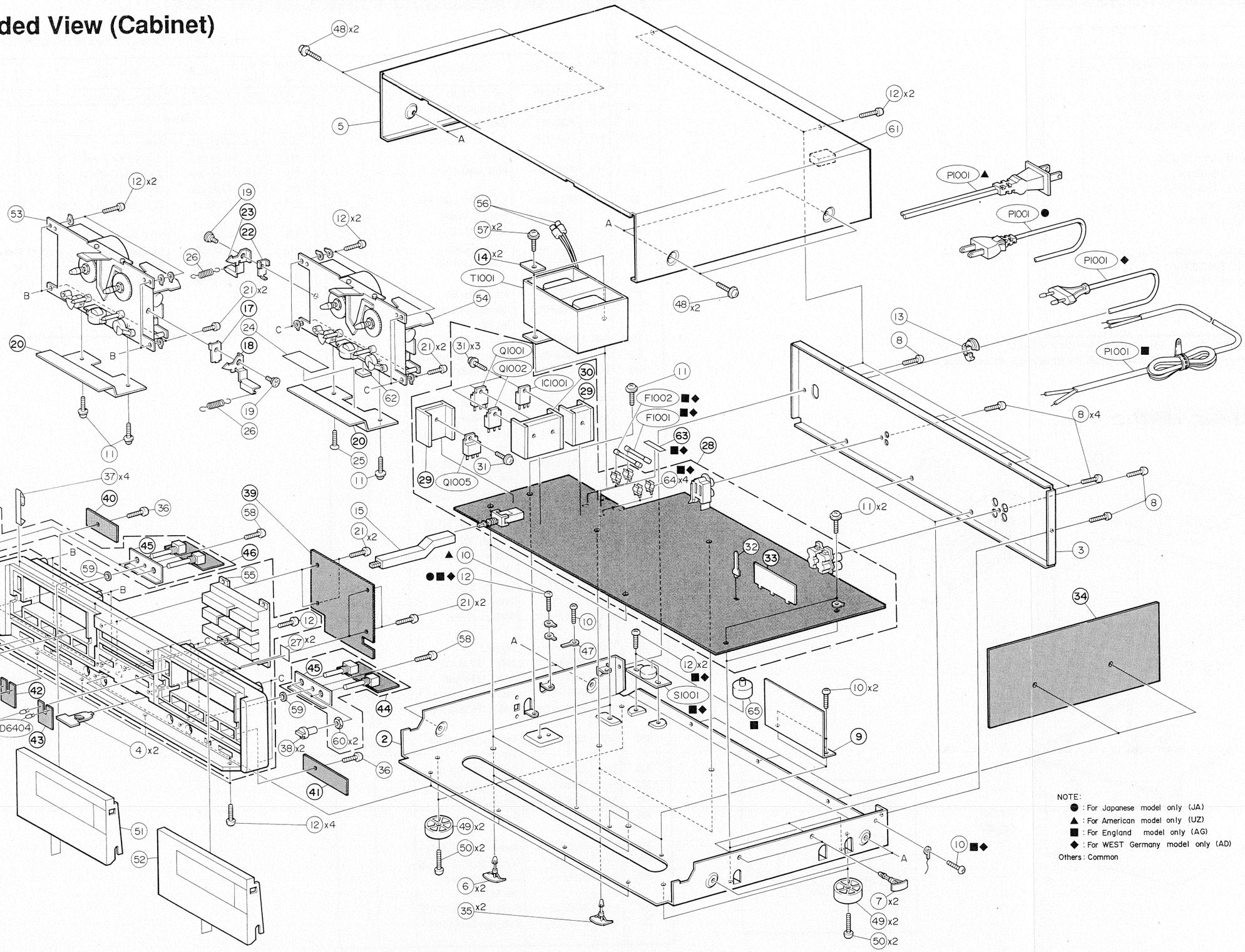
Cabinet Assembly Parts List

Note:The parts without part numbers are not supplied.

Symbol No.		IN-dex	Part No.	Description
	1	4-A	64C11383W01	Panel, Front Assy.
●	3	3-G	15C11356W02	Cover, Rear
▲	3	3-G	15C11356W10	Cover, Rear
■	3	3-G	15C11356W08	Cover, Rear
◆	3	3-G	15C11356W08	Cover, Rear
	4	4-B	36B11370W01	Knob, Eject
	5	1-C	15C11357W02	Cover, Top
	6	5-C	15T84846F03	LSR-10R
	7	5-F	15T84846F01	LSR-6R
	8		03A82468F01	Screw, Bind (M3x10)
	10		03A44642J03	Screw, Bind (M3x5)
	11		03C42723U01	Screw, Cup (M3x6)
	12		03S71031F04	Screw, Bind (M3x8)
	13	2-F	43B41625J02	Support, Cord
	15	3-C	45A11371W01	Lever, SW.
	16	4-A	36A11347W01	Knob, Push
	19		03T11377W01	Screw, Lever Eject (M3x3.7)
	21		03S71031F11	Screw, Bind (M3x10)
	24	2-B	14S94461F47	Insulator, Cover CU
	25	3-C	03S44205G16	Screw, Countersink (M3x6)
	26		41A45559F05	Spring, Eject
	27	4-C	14A13052W01	Insulator, Cover
	31		03C40121T17	Screw, W/Double Washser (M3x8)
	32	4-E	29C41045P06	Lug, Board-In 50mm
	35	5-D	07A12980W01	Spacer, P.C.Board
	36		03S71031F02	Screw, Bind (M2.6x8)
	37	3-B	41T11376W01	Spring, Cass
	38		36A11350W02	Knob, Volume
	47	4-D	29C41045P02	Lug, Warp Alound
	48		03S40036U04	Screw, W/Washer(M3x6)
	49		75T11325W01	Trannleg Assy.
	50		03S44205G82	Screw, Bind (M4x10)
●	51	5-B	15B11385W01	Cover, Cass Assy.
▲	51	5-B	15B11385W02	Cover, Cass Assy.
■	51	5-B	15B11385W02	Cover, Cass Assy.
◆	51	5-B	15B11385W02	Cover, Cass Assy.
	52	5-B	15B11386W01	Cover, Cass B Assy.
	53	2-A	81T15108W01	Cassette, Deck FP77E010
	54	2-D	81T15109W01	Cassette, Deck FP87E010
	55	4-B	36C11384W01	Knob, Logic Assy.
	56	2-D	09T47688F01	Connector, Wire Joint
	57	2-D	03S40036U01	Screw, W/Washer (M4x8)
	58		03S71252F05	Screw, Pan (M3x10)
	59		04A66026F04	Washer, Flat (M3.2)
	60		02S40000G10	Nut, Hex (M7)
	61	3-F	75S92415F11	Cushion, Rubber
	62	4-C	75S62361F43	Cushion, Rubber
■	64	3-E	09T51410F01	Holder, Puse
◆	64	3-E	09T51410F01	Holder, Puse
■	65	4-E	43A43610F01	Bush, Sw

Note : ● ; For Japanese Model Only(JA) ▲ ; For American Model Only(UZ)
◆ ; For West Germany Model Only(AD) ■ ; For England Model Only(AG) Others : Common

Exploded View (Cabinet)



NOTE:
- ● : For Japanese model only (JA)
- ▲ : For American model only (UZ)
- ■ : For England model only (AG)
- ◆ : For WEST Germany model only (AD)

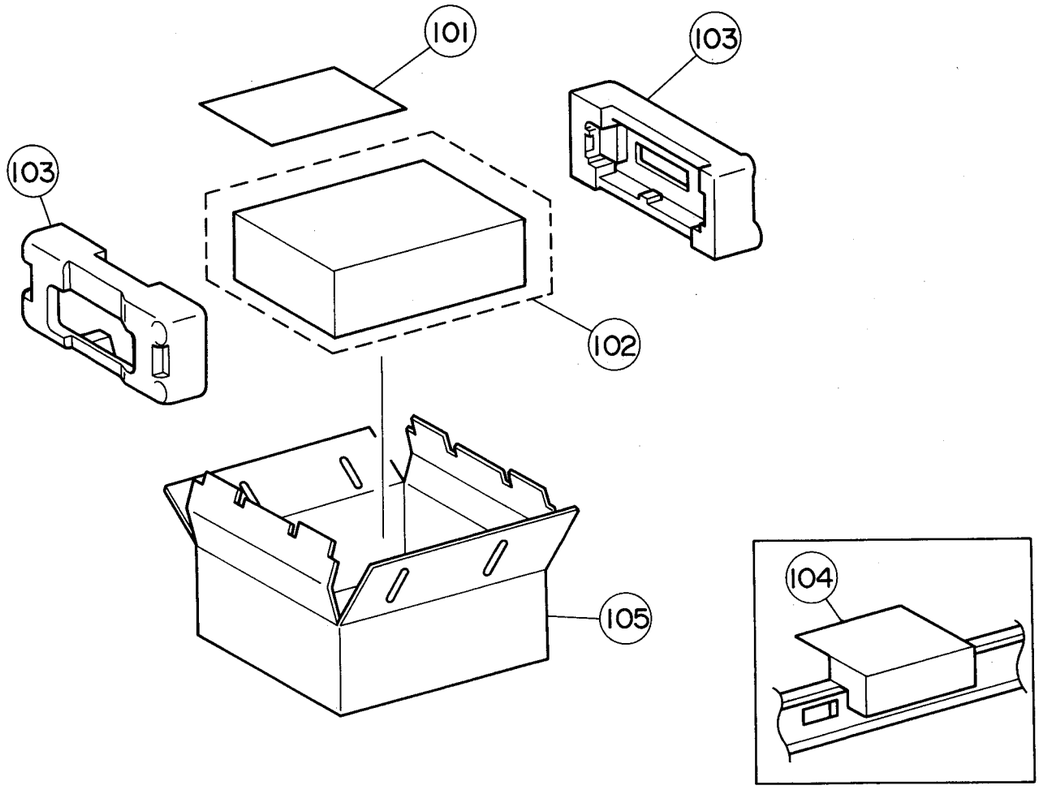
Others : Common

Packing Assembly Parts List

Symbol No.		Part No.	Description		
●	101-1	68P96552F09	Owners. Manual (K-007JA)		
▲	101-1	68P96552P52	Owners. Manual (K-007UZ)		
■	101-1	68P96552F53	Owners. Manual (K-007AG)		
◆	101-1	68P96552P53	Owners. Manual (K-007AD)		
	101-2	28T15331W02	Plug. Output 60 (TSC)		
	101-3	28T15332W02	Cord. Cont 60 (TSC)		
	102	56B13156W02	Packing. Sheet		
	103	56D11359W01	Tray. Packing (R)		
	104	56B13077W01	Pad. Inner		
●	105	56S10005W23	Carton. Packing		
▲	105	56S10005W47	Carton. Packing		
■	105	56S10005W47	Carton. Packing		
◆	105	56S10005W47	Carton. Packing		

Note : ● ; For Japanese Model Only(JA) ▲ ; For American Model Only(UZ)
◆ ; For West Germany Model Only(AD) ■ ; For England Model Only(AG) Others : Common

Packing Method View



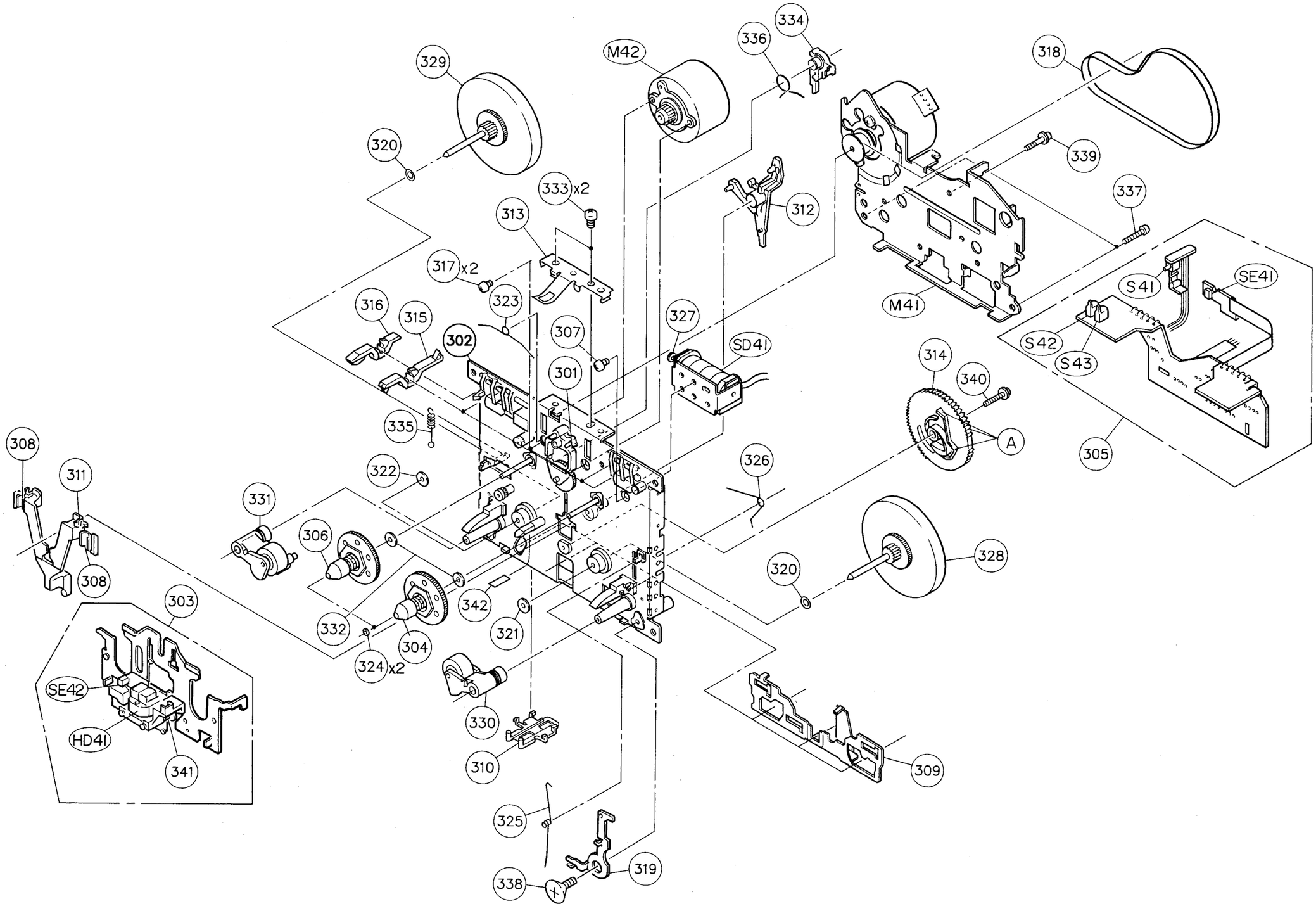
Mechanism Assembly Parts List (A-Deck)

Note:The parts without part numbers are not supplied.

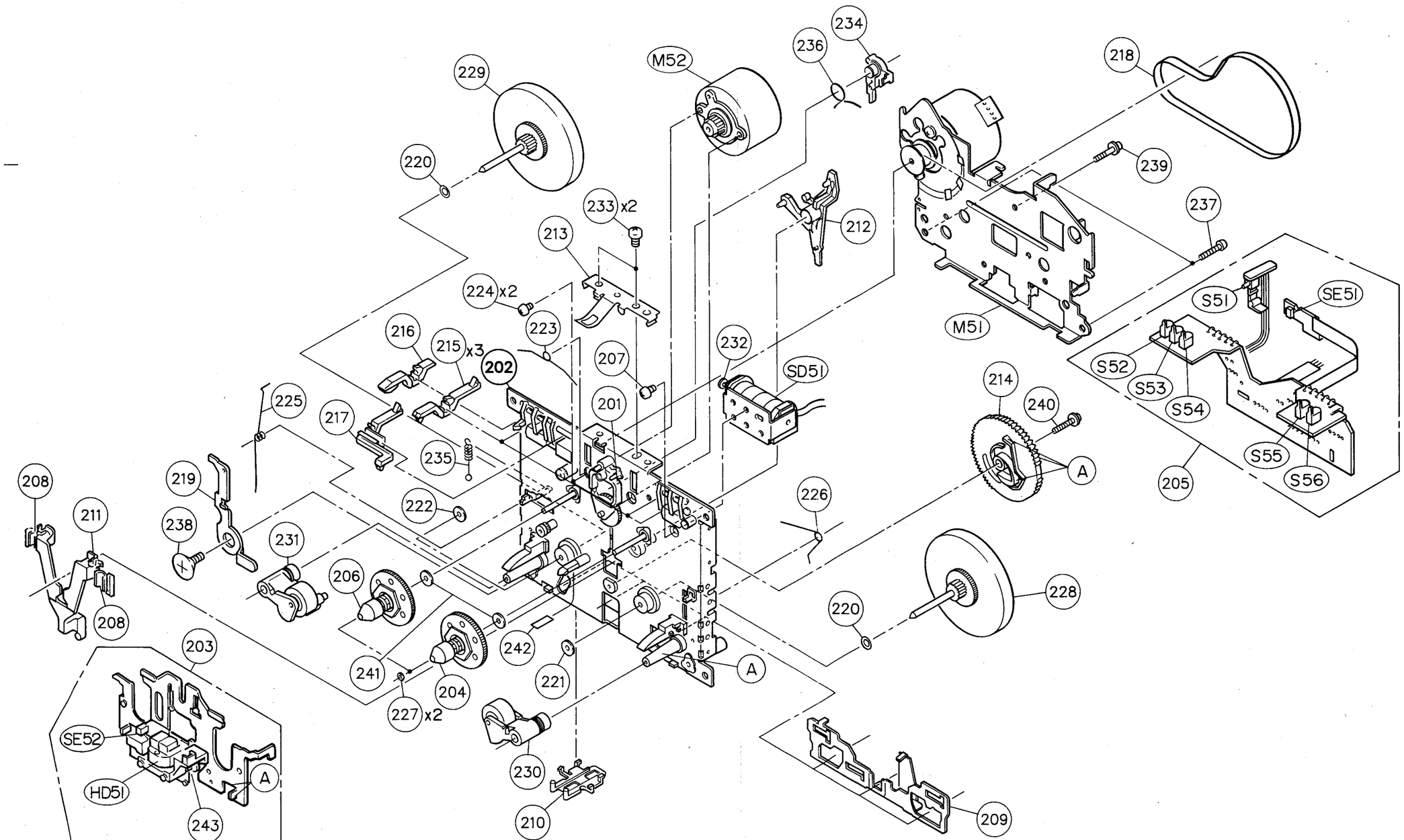
Symbol No.	IN-dex	Part No.	Description		
301	3-D	F517-047	Idler Block		
303	4-B	F513-469	Plate Head Block		
304	4-C	F623-037	Reel Base Block		
305	3-F	F567-217	Control P.C.Board Block		
306	4-B	F623-127	Reel Base Block		
307	2-D	FG114-15	Screw. Pan (M2.6x4)		
308		FF16N-13	Rubber. Brake		
309	5-F	FC47B-15	Plate. Slide		
310	5-C	FD81Y-41	Holder. Lead		
311	3-A	FD86H-12	Lever. Hold (B)		
312	2-E	FD88M-22	Arm. Play (P)		
313	2-C	FC40N-32	Spring. Cassette Holder		
314	3-F	FD89C-52	Gear. Cam (G)		
315	2-C	FD89S-21	Lever. Cr02 Detector		
316	2-C	FD86T-12	Lever. PACK Detector		
317	2-C	FG114-20	Screw. Pan (M2.6x6)		
318	1-F	FF16M-11	Belt. Main		
319	5-D	FC39M-63	Arm. EJECT Prevention (R)		
320		FJ111-30	Washer. Polyslider (M2.6)		
321	4-C	FJ141-11	Washer. Oil (M2.6)		
322	3-C	FJ141-14	Washer. Oil (M2.6)		
323	2-C	FK22E-13	Spring. Hold		
324	4-C	FJ111-17	Washer. Polyslider (M1.7)		
325	5-C	FK22V-15	Spring. EJECT Prevention (R)		
326	3-E	FK25T-13	Spring. Slide		
327	2-D	PL366-11	Plunger		
328	4-F	FR18M-41	Assy.. Flywheel		
329	1-C	FR19T-21	Assy.. Flywheel		
330	4-C	FR20L-21	Assy.. Pinchroller		
331	3-B	FR20M-21	Assy.. Pinchroller		
332	4-B	UJ12V-11	Washer. Polyslider (M2.1)		
333	2-D	KG194-11	Screw. Pan (M3x5)		
334	1-E	FD35N-12	Arm. Direction		
335	3-C	FK22N-12	Spring. Turn		
336	1-E	FK25U-13	Spring. Direction		
337	2-G	UG12H-14	Screw. Pan (M2.6x8)		
338	5-C	UG15S-11	Screw. Special (M3x4)		
339	2-F	UG17H-11	Screw. W/Washer (M2.6x23.5)		
340	3-F	UG17L-11	Screw.W/Washer(M2x15)		
341	5-B	P769-016	Housing. Head Block		

Symbol No.	IN-dex	Part No.	Description		
342	4-C	UT11R-11	Plate. Reflector		
		Miscellaneous			
HD41	5-A	FU18L-11	Head		
M41	2-F	F525-252	Main Motor Block		
M42	1-D	F564-258	Reel Motor Block		
S41	2-G	UE16D-12	SW.. Leaf (DIR)		
S42	3-F	UE16E-11	SW.. Push (HALF)		
S43	3-F	UE16E-11	SW.. Push (Cr02)		
SD41	3-E	F765-252	Solenoid Block		
SE41	2-G	AZ15S-00	Sensor. Reel		
SE42	4-A	AZ13P-00	Sensor. Leader Tape		

Exploded View (A-Deck)



Exploded View (B-Deck)



A B C D E F G H

Mechanism Assembly Parts List (B-Deck)

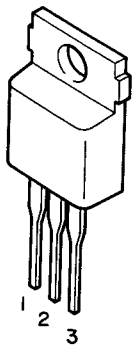
Note:The parts without part numbers are not supplied.

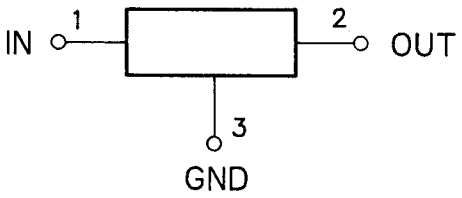
Symbol No.	IN-dex	Part No.	Description		
201	3-D	F517-047	Idler Block		
203	4-B	F513-468	Plate Head Block		
204	4-C	F623-037	Reel Base Block		
205	3-F	F567-217	Control P.C.Board Block		
206	4-B	F623-127	Reel Base Block		
207	2-D	PG114-15	Screw, Pan (M2.6x4)		
208		FF16N-13	Rubber, Brake		
209	5-E	FC47B-15	Plate, Slide		
210	5-C	FD31Y-41	Holder, Lead		
211	3-A	FD36H-12	Lever, Hold (B)		
212	2-E	FD38M-22	Arm, Play (F)		
213	2-C	FC40N-32	Spring, Cassette Holder		
214	3-F	FD39C-52	Gear, Cam (G)		
215	2-C	FD38S-21	Lever, REC Detector		
216	2-C	FD38T-12	Lever, PACK Detector		
217	3-B	FD38U-12	Lever, METAL Detector		
218	1-F	FF16M-11	Belt, Main		
219	3-B	FC39L-63	Arm, EJECT Prevention (L)		
220		FJ111-30	Washer, Polyslider (M2.6)		
221	4-C	FJ141-11	Washer, Oil (M2.6)		
222	3-C	FJ141-14	Washer, Oil (M2.6)		
223	2-C	FK22E-13	Spring, Hold		
224	2-C	PG114-20	Screw, Pan (M2.6x6)		
225	3-B	FK22P-16	Spring, EJECT Prevention (L)		
226	3-E	FK25T-13	Spring, Slide		
227	4-C	FJ111-17	Washer, Polyslider (M1.7)		
228	4-F	FR18M-41	Assy., Flywheel		
229	1-C	FR19T-21	Assy., Flywheel		
230	4-C	FR20L-21	Assy., Pinchroller		
231	3-B	FR20M-21	Assy., Pinchroller		
232	2-D	PL366-11	Plunger		
233	2-D	KG194-11	Screw, Pan (M3x5)		
234	1-E	FD35N-12	Arm, Direction		
235	3-C	FK22N-12	Spring, Turn		
236	1-E	FK25U-13	Spring, Direction		
237	2-G	UG12H-14	Screw, Pan (M2.6x8)		
238	3-B	UG15S-11	Screw, Special (M3x4)		
239	2-F	UG17H-11	Screw, W/Washer (M2.6x23.5)		
240	3-F	UG17L-11	Screw,W/Washer(M2x15)		
241	4-C	UJ12V-11	Washer, Polyslider (M2.1)		
242	4-C	UT11R-11	Plate, Reflector		
243	5-B	F769-016	Housing, Head Block		

Miscellaneous					
HD51	5-A	FU18D-11	Head		
M51	2-E	F525-252	Main Motor Block		
M52	1-D	F564-258	Reel Motor Block		
S51	2-G	UE16D-12	SW., Leaf (DIR)		
S52	2-F	UE16E-11	SW., Push (HALF)		
S53	3-F	UE16E-11	SW., Push (FWD)		
S54	3-G	UE16E-11	SW., Push (REV)		
S55	3-G	UE16E-11	SW., Push (CrO2)		
S56	3-G	UE16E-11	SW., Push (METAL)		
SD51	2-E	F765-252	Solenoid Block		
SE51	2-G	AZ15S-00	Sensor, Reel		
SE52	4-A	AZ13P-00	Sensor, Leader Tape		

Semi-Conductor Lead Identifications

μPC7805H: IC1001





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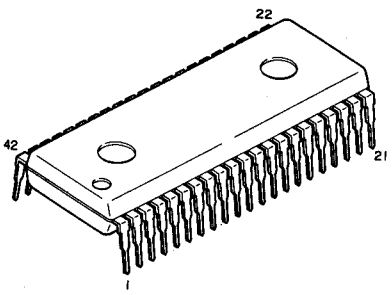

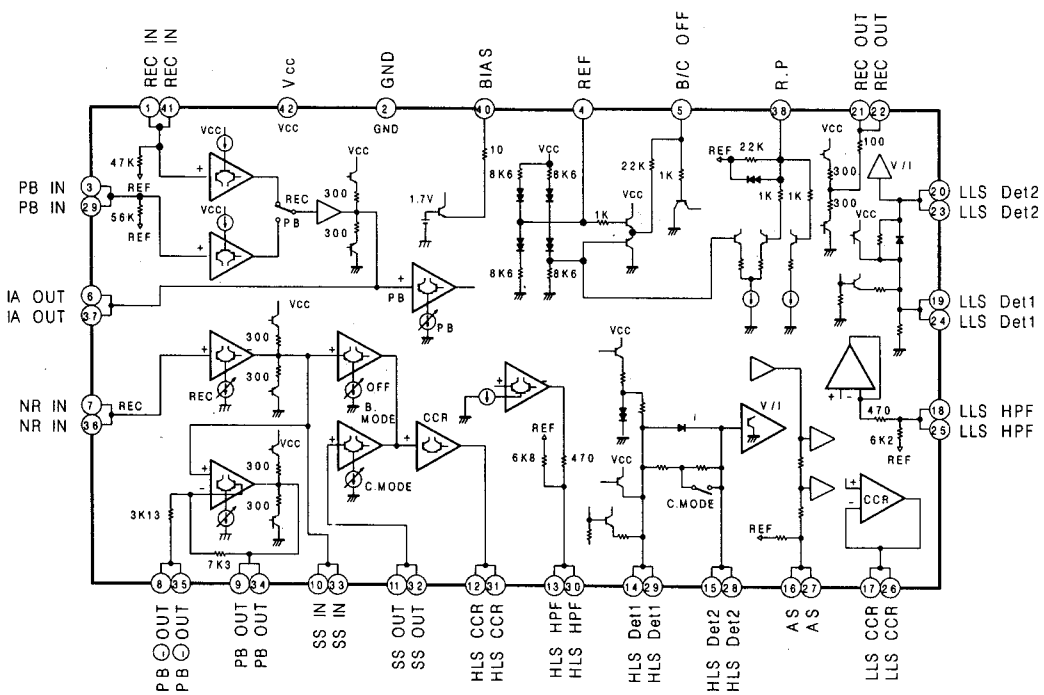

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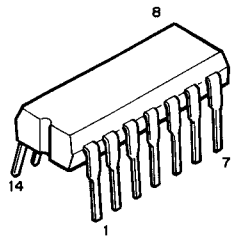
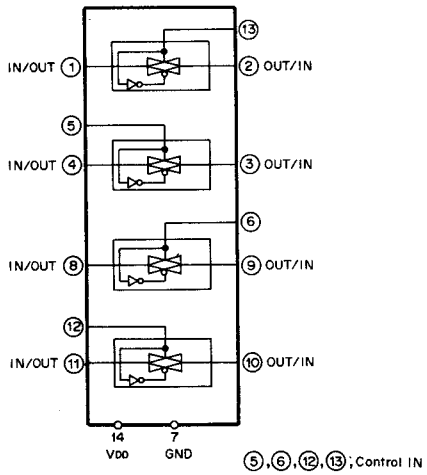
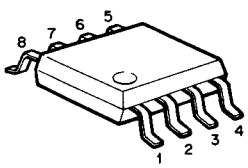
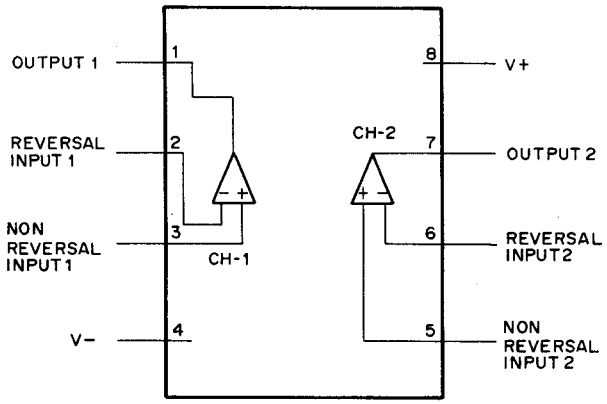




M5238P: IC5001





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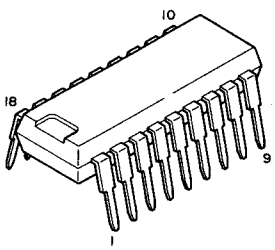
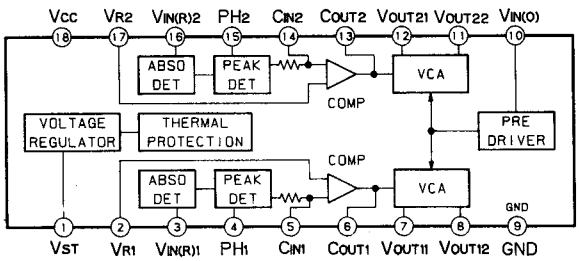
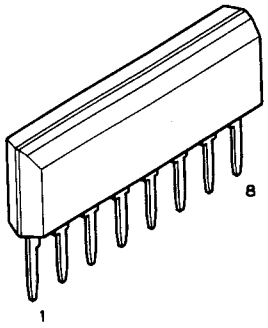
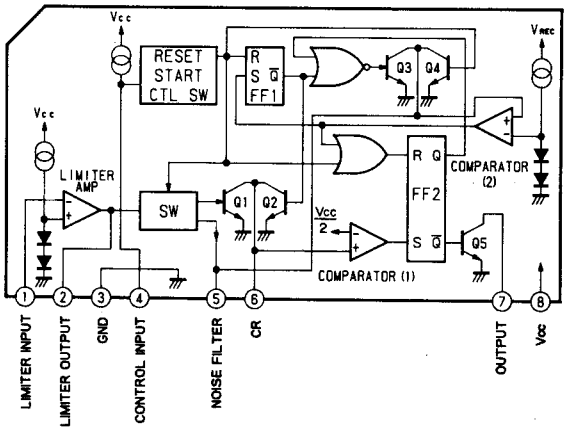


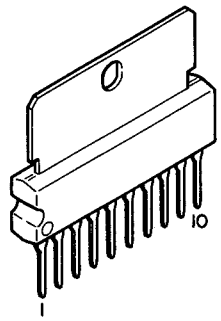


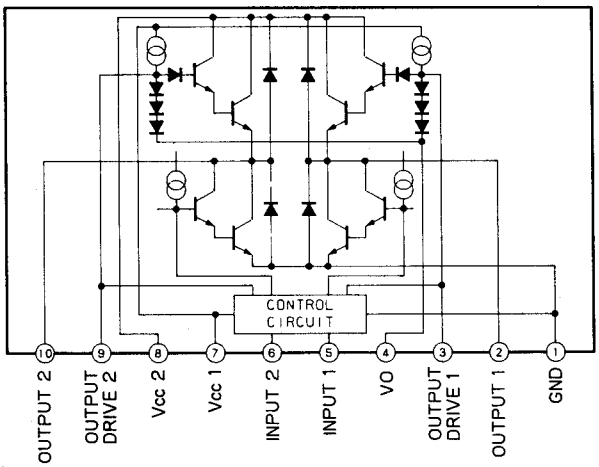
M51143AL: IC6101



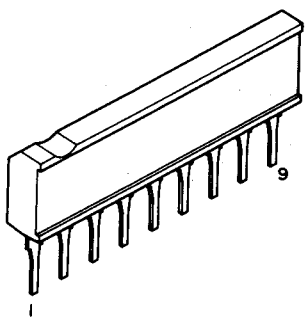


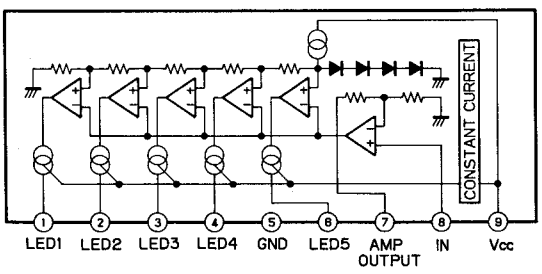
BA6229: IC6071, 6072



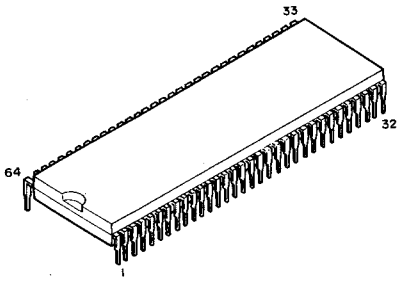


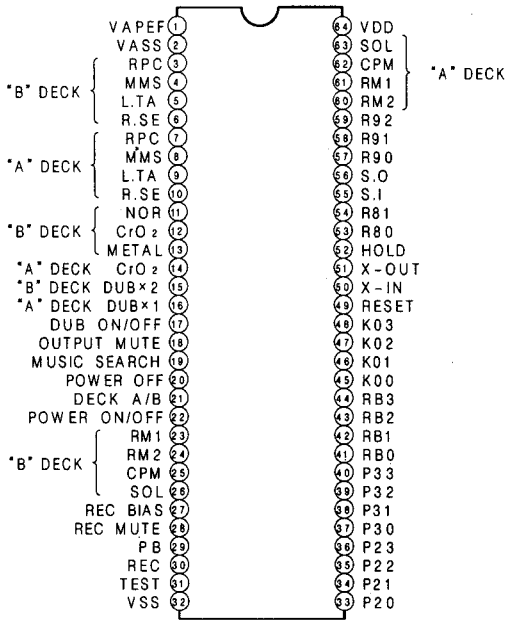
BA6124: IC8101, 8102





96291F01: IC6001

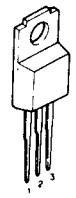




2SA921 : Q2117
2SA1015 : Q2113, 6027, 6028, 6029, 6073, 6074
2SC1318NC: Q5101, 5102
2SC1815 : Q1003, 1004, 1006, 1007, 1009, 1012, 1031, 1034, 2011, 2012, 2118, 3001, 4007, 4008, Q5051, 5071, 5072, 5073, 5074, 5075, 5076, 5123, 6026, 6061, 6062, 6063, 6064, 6077, Q6078, 6079, 6080, 6085, 6086, 6101, 6102
2SC1843 : Q2001, 2002, 2003, 2004, 2101, 2102, 2103, 2104, 4001, 4002
2SC1890 : Q2121, 2122, 2123, 2124
2SC2120 : Q1011, 5052, 5121, 6081, 6082, 6083, 6084, 6087, 6088
2SD1302, **2SD1996** : Q2005, 2006, 2007, 2008, 2009, 2010, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, Q3101, 3102, 4003, 4004, 5031, 5032, 5033, 5034, 5035, 5036, 5201, 5202, 5203, 5204, Q5205, 5206, 5207, 5208, 5209, 5210, 5211, 5212

1. Emitter
2. Collector
3. Base

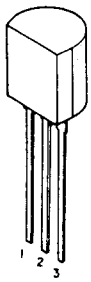
2SD1406: Q1001, 1002, 1005

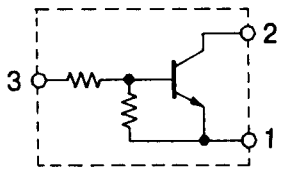


1. Base
2. Collector
3. Emitter

DTC114Y: Q1032, 1033, 3002, 3003, 6001, 6002, 6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, Q6011, 6012, 6013, 6014, 6030, 6031, 6032, 6033, 6034, 6035, 6036, 6037, 6052, 6054, Q6071, 6072, 6075, 6076

DTC124X: Q2116, 4006, 4010, 4011, 4012, 4013, 5122

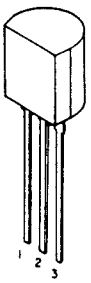


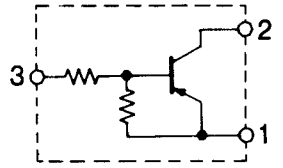


1. Emitter
2. Collector
3. Base

DTA124E: Q2013, 2014, 2015, 2016, 2114, 2115, 3103, 4005, 4009, 5037, 6015, 6016, 6017, Q6018, 6019, 6020, 6021, 6022, 6023, 6024, 6025, 6053

DTA143E: Q6051





1. Emitter
2. Collector
3. Base